

The book cover features a dark, intricate marbled pattern with swirling, organic shapes in shades of brown, black, and cream. A central rectangular label with a gold border contains the title text. The text is in a serif font, with 'REPORT' and 'BUREAU OF MEDICINE AND SURGERY' in larger, bold letters, and 'OF THE CHIEF OF THE' in smaller letters. The year '1888' is at the bottom of the label.

REPORT
OF THE
CHIEF
OF THE
BUREAU OF MEDICINE AND SURGERY

1888



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U.S. Medicine and Surgery, Bureau of the

REPORT

OF THE

CHIEF OF THE BUREAU OF MEDICINE AND SURGERY

TO THE

SECRETARY OF THE NAVY.

1888.

4152
29/7/90

WASHINGTON:
GOVERNMENT PRINTING OFFICE.

1888.



4152
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REPORT

OF THE

CHIEF OF THE BUREAU OF MEDICINE AND SURGERY.

NAVY DEPARTMENT,
BUREAU OF MEDICINE AND SURGERY,
Washington, D. C., October 25, 1888.

SIR: I have the honor to submit the statistical report of the health of the Navy for the past year, together with estimates for the fiscal year ending June 30, 1890, and the condition of the naval hospital fund.

Estimates of appropriations required for the service of the fiscal year ending June 30, 1890, by the Bureau of Medicine and Surgery, Navy Department.

Detailed objects of expenditure, and explanations.	Estimated amount which will be required for each detailed object of expenditure.	Amount appropriated for the current fiscal year ending June 30, 1889.
<i>Salaries, Bureau of Medicine and Surgery.</i>		
Chief clerk (appropriated July 11, 1888)	\$1,800.00	
One clerk of class three (same act)	1,600.00	
One clerk of class two (same act)	1,400.00	
One clerk of class one (same act)	1,200.00	
One clerk (same act)	1,000.00	
One assistant messenger (same act)	720.00	
One laborer (same act)	660.00	
One janitor for naval dispensary (same act)	600.00	
One laborer for naval dispensary (same act)	480.00	
	9,460.00	\$9,460.00

Estimates of appropriations required for the service of the fiscal year, etc.—Continued.

Detailed objects of expenditure, and explanations.	Estimated amount which will be required for each detailed object of expenditure.	Amount appropriated for the current fiscal year ending June 30, 1889.
<i>Support of the medical department.</i>		
For surgeons' necessities for vessels in commission, navy-yards, naval stations, Marine Corps, and Coast Survey and for the civil establishment at the several naval hospitals, navy-yards, naval laboratory, museum of hygiene, and Naval Academy (appropriated September 7, 1888).....	\$57,500.00	\$57,500.00
<i>Naval-hospital fund.</i>		
For the maintenance of the naval hospitals at the various navy-yards and stations (same act)	20,000.00	20,000.00
<i>Contingent expenses of the Bureau.</i>		
For freight or expressage on medical stores; toll; ferriages; transportation of sick and insane patients; care, transportation, and burial of the dead; advertising; telegraphing; rent of telephones; purchase of books and; stationery binding of unbound books and pamphlets; postage and purchase of stamps for foreign service; expenses attending the medical board of examiners; rent of rooms for naval dispensary and museum of hygiene; hygienic and sanitary investigation and illustration; sanitary and hygienic instruction; purchase and repairs of wagons and harness; purchase of, and feed for, horses and cows; trees, plants, garden-tools, and seeds; furniture and incidental articles for the museum of hygiene, naval dispensary, Washington; naval laboratory, sick quarters at Naval Academy and marine barracks, and dispensaries at navy-yards; washing for medical department at museum of hygiene, naval dispensary Washington; naval laboratory, sick quarters at Naval Academy and marine barracks, dispensaries at navy-yards and naval stations, and ships and rendezvous (appropriated September 7, 1888).....	25,000.00	25,000.00
<i>Repairs, Bureau of Medicine and Surgery.</i>		
For necessary repairs of naval laboratory, naval hospitals, and appendages, including roads, wharves, outhouses, sidewalks, fences, gardens, farms, and cemeteries (same act).....	\$20,000.00	\$20,000.00
For continuing the improvement of the naval hospital park at Portsmouth, Va. (same act).....	5,000.00	5,000.00
<i>Sick quarters, navy-yard, Portsmouth, N. H.</i>		
For the construction of sick quarters at the navy-yard, Portsmouth, N. H., in full for all expenses of erecting and furnishing said sick quarters, to be immediately available (submitted).....	35,000.00	
<i>Medical director's residence, Naval Hospital, Mare Island, Cal.</i>		
For the construction of residence for medical director in charge of Naval Hospital, Mare Island, Cal., in full for all expenses of erecting, furnishing, and making necessary improvements about the grounds (submitted).....	20,000.00	

NAVAL HOSPITAL FUND.

The condition of this fund is as follows, viz:

Balance on hand October 1, 1887.....	\$213,985.66
Transferred to the credit since October 1, 1887, by the Fourth Auditor of the Treasury.....	78,480.96
Credit by appropriation for fiscal year 1889.....	20,000.00
	312,466.62
Expended since October 1, 1887.....	76,875.14
Balance on hand October 1, 1888.....	235,591.48

NAVAL HOSPITALS, SICK-QUARTERS, AND SANTARIUM.

Portsmouth, N. H.—A small wooden building belonging to "Yards and Docks," so dilapidated by age that no amount of repairs can make it habitable much longer, is occupied as sick-quarters, but in every respect is unfitted for the purposes for which it is used, and it should be abandoned as soon as suitable sick-quarters, or preferably a small commodious hospital, is built, at a moderate cost.

An advantageous site is found on Seavy's Island, belonging to and adjoining the navy-yard, sufficiently distant from the latter and from the neighboring town to avoid danger of communicating any pestilential disease, and yet near enough to fulfill all the requirements of the navy-yard and marine barracks.

Estimates are herewith transmitted for the erection of a building at a cost of \$35,000, for which your approval is respectfully solicited.

Widow's Island, Penobscot Bay, Maine.—This hospital specially constructed, under the supervision of Passed Assistant Surgeon Heflinger, for the quarantine and treatment of the sick with yellow fever, was completed at the end of the last fiscal year.

A safe and convenient anchorage is given to infected ships, and the locality is sufficiently isolated. Three Ducker portable field hospitals have been provided, which afford accommodation for the treatment of contagious diseases. During the year a wharf was built, with a landing float, gangway plank, and a boat shelter house. For maintaining communication with the surrounding islands a steam-launch, sail-boat, and double-end row-boat have been added to the station. Walks have been laid out and graveled, and spruce, fir, and other hard-wood trees have been planted in the graded grounds. The Bureau has contracted for supplies whenever needed. The establishment as now equipped will accommodate fifty patients, and this could be increased to any desired extent by adding more Ducker pavilions.

Chelsea, Mass.—Certain repairs have been and are being made. A new system of steam-heating is about to be introduced which will occasion important saving of coal and afford heat both for the hospital and the house of the medical officer in charge.

Brooklyn, N. Y.—General renovation and repair will be required during the year. A new system of steam heating will be required next year. The steam-heating system of the house of the medical director is defective and expensive. It is being removed, and new radiators introduced which will receive steam directly from the hospital system. Eventually it is proposed to supply the house of the director of the naval laboratory with steam from the hospital. These repairs and improvements can be effected with the funds available to the Bureau.

Philadelphia, Pa.—In good condition; only slight repairs are needed. Sufficient accommodation for protecting the supply of coal from the weather is wanting. An additional coal shed is required.

Annapolis, Md.—The sick-quarters at the Naval Academy is in excellent condition, with adequate capacity for fulfilling all requirements.

Washington, D. C.—Condition satisfactory. New floors have been laid in pantries and passages, and the iron fence surrounding the grounds has been painted.

Norfolk, Va.—Since the re-occupation of the hospital so little has been expended on the unused portion that it is dilapidated and decayed to a degree making it unsafe if this portion was needed for use. In 1872 a board of experts estimated the cost of repairs of the dilapidated portion requisite to make it serviceable to amount to more than \$32,000. This item is mentioned to show the actual condition of the decayed portions and the need of repairs for its preservation. The repairs already made on the occupied portion, and those required during the year, can be effected without a special appropriation.

Hospital Park improvements, Norfolk.—An appropriation of \$5,000 was expended during the year in improving the Naval Hospital Park. Numerous small elevations and depressions were brought to the same level, a few trees taken out, and much undergrowth removed by grubbing. A well-shelled serpentine roadway or drive, 18 feet in width and

more than a mile in length, was made, together with graded foot-walks, 10 feet in width, whose surfaces are to be eventually covered with asphalt or other material. Settees of iron and wood have been provided. Green street in Portsmouth has been extended to the hospital property and a culvert built between the same. This extension gives a new entrance, now the principal one, at which there has been erected an ornamental gateway with side entrances. The old board fence inclosing the park is decayed, broken down in many places, needs constant patching, and in its defectiveness is entirely unfit for its original purpose. With the appropriation made this year for continuing the improvements, it is considered advisable to erect a suitable iron fence.

Sea-wall, Norfolk.—The plan and specifications for the repair of the sea-wall have been prepared, and the contract for the completion of the work will be made as soon as practicable.

Pensacola, Fla.—The sick-quarters is a light frame building, well ventilated and adapted for the climate, and rests upon part of the foundation of the old hospital destroyed by fire during the civil war. It appears to be ample for the present need of the station, and was thoroughly repaired last year.

Mare Island, Cal.—During the past two years this hospital has had extensive repairs and is now in excellent condition.

The Bureau has frequently called attention to the urgent need of separate quarters for the medical officer in charge. In their absence he is obliged to occupy rooms intended for the junior medical officers, and a ward which has never been used for the patients. These apartments are not adapted for occupancy by a family comprising female members, children, and women servants. The junior medical officers have rooms on the first floor, which properly might be diverted to other purposes. If the medical director had a residence without the hospital the suitable complement of junior officers, now impossible, could be accommodated on the second floor, and enable the rooms vacated by them on the first floor to be used for public purposes. Medical Director Gihon calls attention to the expediency of vacating the ward now occupied by him whenever other quarters are afforded, to give accommodation to a number of paralytics and infirm seamen and marines, constantly increasing, for whom provision should be made for their subsistence and care-taking, thereby avoiding the crowded condition of the Naval Asylum at Philadelphia, and the expense and difficulty of a transfer thereto. The hospital at Mare Island is second in importance to that at Brooklyn. All the principal hospitals on the Atlantic coast have separate houses for the families of the medical officers in charge, and the conditions which make this so necessary exist in a greater degree at this, the only hospital on the Pacific coast for the Pacific and Asiatic stations, and where no outside quarters can be rented.

For the purpose of removing the embarrassment, estimates are submitted for building a house for the medical director at a cost of \$20,000, including all the expenses of connections with the hospital system of water supply, heating, gas lighting, sewerage, and drainage, which it is hoped will meet with your approval.

Yokohama, Japan.—Our only naval hospital on a foreign station receives the sick from the merchant as well as the naval service. It is growing in importance in the estimation of the community, and it is the earnest wish of the Bureau to continue this feeling and improvement.

The hospital is in a creditable condition. A few repairs and improvements are being made together with the refurnishing of the wards and medical officers' quarters. The equipment, which was procured in 1872, has had hard usage, and is having a renewal.

Surgeon Gravatt writes:

Through the energy of my predecessor, Surgeon McMurtrie, the grounds surrounding the hospital have been reclaimed from a bleak, overgrown, and almost uncared for waste, and made attractive by ornamental trees and flowers. The English naval hospital, in proximity, has an allowance of £500 to expend upon its grounds annually

PENSION CASES.

Number of pension cases remaining on hand June 30, 1887.....	369
Number received during fiscal year ending June 30, 1888	2,444
Number answered during fiscal year ending June 30, 1888	2,667
Number remaining on hand June 30, 1888.....	146

MUSEUM OF HYGIENE.

Medical Inspector Wells reports:

On assuming charge, February 1, 1888, I found the museum overcrowded with exhibits, the library too large for its allotted space, and the laboratory fully occupied with chemical work, all of which demonstrated the healthy growth of the institution in the short period of six years, as well as the wisdom of its founders and managers. It is therefore unnecessary to advance any argument as to the need of such a museum, it being the first and only one of its special character in this country. Apart from the support which it must have from the General Government, its existence and objects must be more generally made known to the medical profession and all who are interested in sanitary science to insure its perfect and permanent success.

During the recent congress of physicians and surgeons held in this city the museum was visited by many delegates, some of whom until then were ignorant of the existence of such an institution, while all expressed surprise and gratification at what had been accomplished in so short a time, and promised their interest and support in the future.

New efforts have recently been made to enlist the co-operation of medical men, architects, builders, plumbers, inventors, and students of hygiene throughout the country. As the publicity of the museum increases so will the collection of sanitary and hygienic appliances increase, until there will be absolutely no more space in the present building for exhibition of the same. It will therefore soon become necessary to use the lower floor, now occupied by the naval dispensary, or seek a larger building.

During the past year many additions to the exhibits have been made, including some very interesting and instructive specimens of defective plumbing, faulty traps and waste pipes, and here I would add that many prominent builders and plumbers in Washington and other cities are manifesting their interest in the museum by contributions which show the advancement made in recent years in building healthful homes. The result is that the museum is frequently visited by persons who are in search of the best sanitary measures to render their new buildings wholesome and healthful.

The library is constantly receiving accessions, including the best native and foreign works and periodicals on medicine and surgery, hygiene, and scientific subjects. This increase necessitates the re-arrangement of the books and the addition of more shelves the ensuing year. We now have about 1,000 volumes ready for binding.

VACANCIES IN THE MEDICAL CORPS.

Vacancies have existed in the grade of assistant surgeon since the close of the late war. In 1877 the number of assistant surgeons allowed by law was nearly complete, only four vacancies existing. In the following year the vacancies were six. At the present time there are eleven. In twenty years the percentage of accepted candidates is 25; of rejected candidates, 75.

The board for the examination of candidates for admission into the Medical Corps has been almost continuously in session for many years. Medical Director Gorgas, president of the board, in May last reported as follows:

I have been greatly disappointed at the results of our work this year; seven of the twelve applicants were rejected physically, and but one of the others has passed professionally.

To lower the standard of examination is not considered advisable, since its character is that which should obtain for the procurement of those worthily qualified to fill the vacancies, and in justice to those who have passed the same and are now members of the Medical Corps. The

few admissions are barely adequate to fill the vacancies made by death, retirement, and resignation. A bill for the improvement of the condition of assistant surgeons in rank and pay, in conformity with your recommendation, has been presented to Congress with no near prospect of a successful issue.

INSANE OF THE NAVY.

There were seventy-nine patients belonging to the Navy treated in the Government Hospital for the Insane in the District of Columbia for the year ending September 30, 1888.

Remaining in hospital September 30, 1887.....	58
Admitted during the year ending September 30, 1888.....	21
Total under treatment	79
Discharged during the year:	
Recovered	7
Improved	1
Died.....	7
	15
Remaining in hospital September 30, 1888:	
Officers	7
Enlisted men	57
	64

No severe epidemic has operated against the health of the Navy during the past year.

In September Supervising Surgeon-General Hamilton, of the U. S. Marine Hospital Service, asked for expert medical officers to make certain investigations regarding yellow fever at Fernandina, Fla., and elsewhere, and to take charge of the Government relief measures.

Surgeon Ross and Assistant Surgeon Martin, who were experienced in the management of a like epidemic, and who had already volunteered their services, were directed to hold themselves in readiness to act under instructions of Supervising Surgeon-General Hamilton.

They were assigned to duty in Florida, where they now remain.

Very respectfully, your obedient servant,

JNO. MILLS BROWNE,
Surgeon-General, U. S. Navy.

Hon. WILLIAM C. WHITNEY,
Secretary of the Navy.

Force afloat—General aggregate, 1887.

Classification of diseases.	Remaining from last year.	Admitted.	Discharged to duty.	Invalided.		Died.	Remaining at the end of the year.	Total number of sick days.
				To hospital.	From service.			
Morbid states and processes, irrespective of parts affected	2	73	47	24	2	.....	2	578
General diseases dependent upon morbid poisons:								
Class 1.....	3	473	391	73	1	3	8	3,109
Class 2.....	12	486	462	30	.....	.....	6	2,197
Class 3.....	18	13	4	.....	.....	.....	1	189
Class 4.....	9	508	446	60	2	.....	9	5,769
General diseases dependent upon causes other than morbid poisons:								
Class 1.....	.....	33	32	1	.....	.....	.....	157
Class 2.....	.....	127	118	8	.....	1	.....	360
Developmental diseases.....	.....	3	.....	3	.....	.....	.....	7
Unclassified diseases	10	561	459	91	1	1	19	5,550
Local diseases:								
Diseases of the nervous system.....	8	314	259	52	4	1	6	2,333
Diseases of the eye .....	.....	109	87	15	2	.....	5	822
Diseases of the ear .....	.....	52	48	3	1	.....	.....	424

Force afloat—General aggregate, 1887—Continued.

Classification of diseases.	Remaining from last year.	Admitted.	Discharged to duty.	Invalided.		Died.	Remaining at the end of the year.	Total number of sick days.
				To hospital.	From service.			
Local diseases—Continued.								
Diseases of the nose.....		27	24	3		2		193
Diseases of the circulatory system.....	1	46	23	20	2			494
Diseases of the respiratory system.....	5	607	492	102		6	12	4,453
Diseases of the digestive system.....	20	1,276	1,224	52	1		19	5,357
Diseases of the lymphatic system.....	9	227	194	29			13	4,336
Diseases of the urinary system.....	3	53	37	14	1	2	2	615
Diseases of the generative system.....	12	373	316	57	1	1	10	4,436
Diseases of the locomotor system.....	1	27	22	6				309
Diseases of the integumentary system.....	18	902	855	46			19	7,749
Parasitic diseases.....		8	8					25
Poisons.....		11	11					66
Tumors and cysts—malignant and non-malignant.....		13	10	3				91
Surgical operations.....		3	2	1				38
Injuries, etc.....	47	1,417	1,339	80	1	17	27	11,999
Feigned diseases.....		5	5					29
Total.....	160	7,752	6,924	777	19	34	158	61,685

Force afloat—Detailed statement, 1887.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick days.
				To hospital.	From service.			
MORBID STATES AND PROCESSES IRRESPECTIVE OF PARTS AFFECTED.								
Adynamia.....	2	68	42	24	2		2	562
Atrophia.....		1	1					2
Hæmorrhagia.....		1	1					1
Hydrops.....		1	1					8
Cedema.....		2	2					5
GENERAL DISEASES.—DEPENDENT UPON MORBID POISONS.								
Class 1.								
Catarrhus epidemicus.....		12	12					53
Dysentæria acuta.....	3	34	29	4	1	2	1	276
Dysentæria chronica.....		2	1	1				12
Febris cerebro spinalis.....		2		1		1		3
Febris continua simplex.....		229	217	11			1	1,160
Febris enterica.....		15	5	9			1	274
Febris typho-malarialis.....		8	2	1			5	95
Malaise.....		1	1					2
Morbilli.....		18	9	9				105
Parotitis.....		58	38	20				500
Roseola.....		3	1	2				5
Rubeola.....		1	1	1				1
Scarlatina.....		3	1	2				39
Vaccina.....		78	74	4				542
Varicella.....		9	1	8				42
Class 2.								
Cachexia malarialis.....		12	9	3				33
Febris intermittens.....	8	400	385	18			5	1,534
Febris remittens.....	4	72	66	9			1	615
Febricula.....		2	2					15
Class 3.								
Erysipelas.....		18	13	4			1	189

Force afloat—Detailed statement, 1887—Continued.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick days.
				To hospital.	From service.			
GENERAL DISEASES.—DEPENDENT UPON MORBID POISONS—Continued.								
Class 4.								
Gonorrhœa	3	302	290	14	—	—	1	2,820
Syphilis consecutiva	5	124	95	30	1	—	3	1,547
Syphilis primitiva	1	82	61	16	1	—	5	1,402
GENERAL DISEASES.—DEPENDENT UPON CAUSES OTHER THAN MORBID POISONS.								
Class 1.								
Aerum effectus	—	1	1	—	—	—	—	13
Caloris effectus	—	27	26	1	—	—	—	129
Frigoris effectus	—	5	5	—	—	—	—	15
Class 2.								
Alcoholismus	—	123	114	8	—	1	—	339
Chloralismus	—	1	1	—	—	—	—	1
Delirium tremens	—	1	1	—	—	—	—	2
Ebriositas	—	1	1	—	—	—	—	1
Scorbutus	—	1	1	—	—	—	—	17
DEVELOPMENTAL DISEASES.								
Senectus	—	3	—	3	—	—	—	7
UNCLASSIFIED DISEASES.								
Anæmia	—	5	3	2	—	—	—	41
Diabetes	—	2	1	1	—	—	—	104
Goitre	—	1	—	1	—	—	—	1
Lumbago	—	14	14	—	—	—	—	94
Edema	—	2	1	—	—	—	1	10
Podagra	1	6	5	1	—	—	1	37
Rheumatismus	3	356	285	63	1	—	10	3,560
Rheumatismus acutus	6	173	149	22	—	1	7	1,645
Torticollis	—	1	1	—	—	—	—	3
Scrofula	—	1	—	1	—	—	—	5
LOCAL DISEASES.								
Diseases of the nervous system.								
Apoplexia	—	3	1	1	—	1	—	17
Cephalalgia	1	53	52	1	—	—	1	131
Convulsio	—	15	11	4	—	—	—	134
Dementia	—	6	3	3	—	—	—	13
Epilepsia	—	21	6	12	2	—	1	210
Insolatio	—	11	11	—	—	—	—	68
Insomnia	—	3	3	—	—	—	—	78
Irritatio spinalis	—	2	—	2	—	—	—	5
Mania	—	9	5	4	—	—	—	237
Melancholia	1	12	3	9	1	—	—	248
Nausea marina	1	8	9	—	—	—	—	23
Neuralgia	—	130	120	8	—	—	2	566
Neurasthenia	—	2	1	1	—	—	—	27
Paralysis	1	10	6	4	—	—	1	221
Pleurodynia	2	6	8	—	—	—	—	53
Sciatica	1	10	9	1	—	—	1	240
Vertigo	1	13	11	2	1	—	—	63
Diseases of the eye.								
Amaurosis	—	2	—	—	2	—	—	23
Asthenopia	—	2	2	—	—	—	—	6
Blepharitis	—	1	1	—	—	—	—	1
Cataracta	—	2	—	1	—	—	—	15
Conjunctivitis	—	66	57	6	—	—	3	510
Ectropium	—	1	—	1	—	—	—	29
Hordeolum	—	5	5	—	—	—	—	13
Hypermetropia	—	1	1	—	—	—	—	2
Iritis	—	9	7	2	—	—	—	67

Force afloat—Detailed statement, 1887—Continued.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick days.
				To hospi- tal.	From serv- ice.			
LOCAL DISEASES—Continued.								
<i>Diseases of the eye—Continued.</i>								
Keratitis		5	2	3				34
Myopia		6	3	2			1	30
Ophthalmia		4	4					28
Scleratitis		1	1					8
Ulcer corneæ		4	4					56
<i>Diseases of the ear.</i>								
Otalgia		5	5					16
Otitis		24	22	1	1			194
Otorrhœa		12	11	1				107
Surditas		11	10	1				107
<i>Diseases of the nose.</i>								
Catarrhus nasalis		24	22	2				171
Epistaxis		2	2					18
Ozæna		1		1				4
<i>Diseases of the circulatory system.</i>								
Anasarca		1	1					12
Aneurysma		3	1	1		1		15
Angina pectoris		3	3					18
Hypertrophica cordis		3		2	1			38
Morbi valvularum cordis		11	4	6	1			104
Palpitatio	1	16	11	6				212
Paralysis cordis		1				1		1
Pericarditis		1	1					3
Phlebitis		1	1					17
Varix		6	1	5				74
<i>Diseases of the respiratory system.</i>								
Asthma	1	23	18	5			1	207
Bronchitis acuta	2	183	156	21		2	6	1,101
Bronchitis chronica		47	29	17			1	613
Catarrhus		205	199	3			3	851
Hæmoptysis		12	9	3				104
Laryngitis		24	22	2				110
Phthisis pneumonica acuta		7		6		1		50
Phthisis pneumonica chronica		33	9	21		2	1	751
Pleuritis		36	30	6				288
Pneumonia	2	37	20	18		1		378
<i>Diseases of the digestive system.</i>								
Ascites		1		1				20
Cholera morbus		88	86	2				213
Colica	2	114	114	1			1	432
Constipatio		34	30	4				121
Congestio hepatis		2	2					12
Dyspepsia	1	53	49	3	1		1	332
Diarrhœa acuta	2	391	382	9			2	1,361
Diarrhœa chronica	1	6	6	1				43
Enteritis		5	3	2				18
Fissura ani		1	1					5
Fistula in ano	1	1	1					25
Gastralgia		1		1				13
Gastritis	1	32	29	2			2	210
Gastrodynia		8	8					66
Hæmorrhoids	1	35	32	4				189
Hepatitis acuta		3	1	2				8
Icterus	2	18	17	3				150
Odontalgia		9	9					21
Parulis		5	5					14
Peritonitis		12	11	1				105
Pharyngitis		76	73	2			1	316
Prolapsus ani		1	1					1
Rhagades ani		1	1					12
Stomatitis		1	1					9
Tonsillitis	9	376	360	13			12	1,651
Typhlitis		2	2					10

Force afloat—Detailed statement, 1887—Continued.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick days.
				To hospital.	From service.			
LOCAL DISEASES—Continued.								
<i>Diseases of the lymphatic system.</i>								
Adenitis.....	9	222	189	29	.....	.....	13	4, 270
Lymphangitis.....	.....	5	5	.....	.....	.....	.....	66
<i>Diseases of the urinary system.</i>								
Albuminuria.....	1	9	4	4	.....	1	1	229
Calculus.....	.....	1	1	.....	.....	.....	.....	6
Cystitis.....	2	21	16	6	.....	.....	1	276
Dysuria.....	.....	4	4	.....	.....	.....	.....	15
Enuresis.....	.....	9	5	3	1	.....	.....	39
Hæmaturia.....	.....	6	5	1	.....	.....	.....	39
Nephritis.....	.....	3	2	.....	.....	1	.....	11
<i>Diseases of the generative system.</i>								
Balanitis.....	.....	6	4	2	.....	.....	.....	27
Chancroides.....	9	131	116	21	.....	.....	3	1, 789
Congestio renalis.....	.....	1	1	.....	.....	.....	.....	4
Epididymitis.....	1	25	23	2	.....	.....	1	374
Hydrocele.....	.....	3	3	.....	.....	.....	.....	14
Hydrops articuloꝝ.....	.....	1	.....	1	.....	.....	.....	1
Orchitis.....	2	150	126	21	.....	.....	5	1, 686
Paraphymosis.....	.....	2	1	1	.....	.....	.....	22
Phymosis.....	.....	6	5	.....	.....	.....	1	92
Prostatitis.....	.....	3	1	2	.....	.....	.....	78
Retentio urinæ.....	.....	1	1	.....	.....	.....	.....	1
Spermatorrhœa.....	.....	2	2	.....	.....	.....	.....	27
Talipes equina valgus.....	.....	2	1	.....	1	.....	.....	10
Urethræ strictura.....	.....	34	27	6	.....	1	.....	268
Urethritis.....	.....	3	2	1	.....	.....	.....	21
Varicocele.....	.....	3	3	.....	.....	.....	.....	22
<i>Diseases of the locomotor system.</i>								
Ankylosis.....	.....	3	3	.....	.....	.....	.....	29
Arthritis.....	1	1	1	1	.....	.....	.....	14
Necrosis.....	.....	3	2	1	.....	.....	.....	90
Periostitis.....	.....	5	4	1	.....	.....	.....	54
Synovitis.....	.....	15	12	3	.....	.....	.....	122
<i>Diseases of the integumentary system.</i>								
Abcessus.....	4	235	217	14	.....	.....	8	2, 151
Anthrax.....	.....	14	11	2	.....	.....	1	143
Clavus.....	.....	1	.....	1	.....	.....	.....	9
Ecthyma.....	.....	5	3	1	.....	.....	1	75
Eczema.....	1	40	33	5	.....	.....	3	567
Erythema.....	.....	11	10	.....	.....	.....	1	63
Furunculus.....	3	422	420	3	.....	.....	2	2, 746
Herpes.....	.....	12	11	1	.....	.....	.....	80
Impetigo.....	.....	6	6	.....	.....	.....	.....	39
Lichen.....	.....	1	1	.....	.....	.....	.....	5
Onychia.....	.....	8	7	1	.....	.....	.....	95
Paronychia.....	2	31	31	1	.....	.....	1	294
Pemphigus.....	.....	1	1	.....	.....	.....	.....	22
Porrigo.....	.....	2	2	.....	.....	.....	.....	34
Psoriasis.....	.....	1	.....	1	.....	.....	.....	8
Rupia.....	.....	3	3	.....	.....	.....	.....	18
Scabies.....	2	11	10	3	.....	.....	.....	115
Tinea.....	.....	1	1	.....	.....	.....	.....	3
Ulcus.....	4	85	76	11	.....	.....	2	1, 196
Unguis involutus.....	.....	2	3	5	.....	.....	.....	20
Urticaria.....	.....	6	5	1	.....	.....	.....	39
Verruca.....	.....	3	2	1	.....	.....	.....	27
PARASITIC DISEASES.								
Vermes.....	.....	8	8	.....	.....	.....	.....	25

Force afloat—Detailed statement, 1887—Continued.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick days.
				To hospi- tal.	From serv- ice.			
POISONS.								
Colica pletonum		2	2					6
Delirium tremens		1	1					2
Ptyalismus		1	1					25
Vulnus venenatum		7	7					33
TUMORS AND CYSTS—(MALIGNANT OR NON-MALIGNANT).								
Adenoma		1	1					2
Bursitis		2	2					21
Cystis		3	3					20
Epithelioma		4	3	1				28
Fibroma		2	1	1				14
Neuroma		1		1				6
SURGICAL OPERATIONS.								
Amputatio		1		1				15
Circumcision		1	1					17
Tonsillotomy		1	1					6
INJURIES, ETC.								
Abrasio	1	62	62				1	371
Ambustio	3	83	78	6			2	848
Concussio		15	10	4			1	112
Contusio	7	343	339	6			5	2,063
Fractura	8	58	38	24		3	1	1,302
Hernia	2	38	23	13	1		3	508
Luxatio	1	19	15	4			1	252
Stremma	5	317	305	12			5	2,267
Submersio		11	1			10		11
Suicidium		1				1		1
Vulnus contusum	7	166	171	1			1	1,299
Vulnus incisum	3	137	137	1			2	1,070
Vulnus laceratum	5	110	104	4		2	5	1,400
Vulnus punctum	5	47	50	2				362
Vulnus sclopetarium		10	6	3		1		133
FEIGNED DISEASES.								
Malingering		1	1					14
Rheumatism		2	2					9
Stremma		2	2					6
Total	160	7,752	6,924	777	19	34	158	61,685

Navy-yards and stations—General aggregate, 1887.

Classification of diseases.	Remaining from last year.	Admitted.	Discharged to duty.	Invalided.		Died.	Remaining at the end of the year.	Total number of sick days.
				To hospital.	From service.			
Morbid states and processes irrespective of parts affected		23	15	5			3	316
General diseases dependent upon morbid poisons:								
Class 1		74	58	13			3	449
Class 2		200	166	32			2	1,082
Class 3		7	3	4				77
Class 4	1	96	58	36			3	1,063
General diseases dependent upon causes other than morbid poisons:								
Class 1		6	6					61
Class 2		64	49	15				213
Unclassified diseases		135	111	21			3	1,063
Local diseases:								
Diseases of the nervous system		135	120	10		2	3	791
Diseases of the eye		35	25	9			1	320
Diseases of the ear		11	8	2			1	68
Diseases of the nose		10	8	1		1		70
Diseases of the circulatory system		24	17	6		1		229
Diseases of the respiratory system	7	247	205	43		2	4	1,621
Diseases of the digestive system	5	538	488	50	1		4	2,778
Diseases of the lymphatic system		18	12	6				311
Diseases of the urinary system	1	30	20	7	1	3		698
Diseases of the generative system	2	40	29	10			3	446
Diseases of the locomotor system		15	10	5				170
Diseases of the integumentary system	2	117	107	9	1		2	940
Parasitic diseases		1	1					3
Poisons		1	1					7
Injuries, etc	1	265	238	21	1	2	4	2,222
Total	19	2,092	1,755	305	4	11	36	14,998

Navy-yards and stations—Detailed statement, 1887.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick-days.
				To hospital.	From service.			
MORBID STATES AND PROCESSES IRRESPECTIVE OF PARTS AFFECTED.								
Adynamia		20	15	4			1	224
Hæmorrhagia		1		1				1
Hydrops		2					2	91
GENERAL DISEASES, DEPENDENT UPON MORBID POISONS.								
Class 1.								
Catarrhus epidemicus		2	2					10
Diphtheria		1	1					30
Dysentæria acuta		5	4	1				13
Dysentæria chronica		3		2			1	3
Febris continua simplex		9	8				1	49
Febris enterica		2	1	1				41
Febris flava		1	1					3
Febris typho-malarialis		1					1	6
Morbilli		8	1	7				17
Roseola		6	6					42
Vaccina		31	29	2				143
Varicella		5	5					92

Navy-yards and stations—Detailed statement, 1887—Continued.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick days.
				To hospi- tal.	From serv- ice.			
GENERAL DISEASES, DEPENDENT UPON MORBID POISONS—Cont'd.								
Class 2.								
Cachexia malarialis.....		16	9	6			1	161
Febris intermittens.....		161	136	24			1	607
Febris remittens.....		23	21	2				314
Class 3.								
Erysipelas.....		7	3	4				77
Class 4.								
Gonorrhœa.....	1	58	38	20			1	486
Syphilis primitiva.....		15	5	10				103
Syphilis consecutiva.....		23	15	6			2	474
GENERAL DISEASES, DEPENDENT UPON CAUSES OTHER THAN MOR- BID POISONS.								
Class 1.								
Aërum effectus.....		4	4					54
Caloris effectus.....		2	2					7
Class 2.								
Alcoholismus.....		64	49	15				213
UNCLASSIFIED DISEASES.								
Anæmia.....		2	2					7
Febris urethritis.....		1		1				1
Diabetes.....		4	3				1	177
Podagra.....		8	7	1				77
Rheumatismus.....		90	77	11			2	614
Rheumatismus acutus.....		30	22	8				187
LOCAL DISEASES.								
Diseases of the nervous system.								
Apoplexia.....		2				1	1	4
Cephalalgia.....		53	53					113
Convulsio.....		1	1					2
Dementia.....		2	1	1				8
Epilepsia.....		3	1	2				16
Hyperæmia cerebri.....		1		1				10
Insolatio.....		1	1					3
Insomnia.....		5	4				1	139
Irritatio spinalis.....		2	2					15
Myelitis.....		1	1					56
Neuralgia.....		59	53	5			1	336
Paralysis.....		4	2	1		1		87
Vertigo.....		1	1					2
Diseases of the eye.								
Amaurosis.....		1	1					19
Conjunctivitis.....		16	13	3				72
Hordeolum.....		3	3					14
Iritis.....		6	4	1			1	120
Keratitis.....		1	1					1
Myopia.....		3	2	1				81
Ophthalmia.....		3	1	2				11
Pterygium.....		1		1				1
Ulcus corneæ.....		1		1				1
Diseases of the ear.								
Otalgia.....		3	2	1				11
Otitis.....		4	3				1	46
Otorrhœa.....		3	2	1				10
Surditas.....		1	1					1

Navy-yards and stations—Detailed statement, 1887—Continued.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick days.
				To hospital.	From service.			
LOCAL DISEASES—Continued.								
<i>Diseases of the nose.</i>								
Catarrhus nasalis.....		7	7					67
Epistaxis.....		3	1	1		1		3
<i>Diseases of the circulatory system.</i>								
Hypertrophia cordis.....		2	2					34
Morbi valvularum cordis.....		5		4		1		103
Palpitatio.....		9	8	1				66
Pericarditis.....		1		1				7
Phlebitis.....		1	1					7
Syncope.....		6	6					12
<i>Diseases of the respiratory system.</i>								
Asthma.....		4	4					35
Bronchitis acuta.....	1	69	58	9		1	2	463
Bronchitis chronica.....		6	4	2				85
Catarrhus.....	2	127	116	12			1	474
Hæmoptysis.....		6	3	3				59
Laryngitis.....	1	10	7	4				36
Phthisis pneumonica acuta.....		1		1				66
Phthisis pneumonica chronica.....	2	12	6	6		1	1	353
Pleuritis.....	1	9	4	6				72
Pneumonia.....	2	2	2					32
Congestio pulmonary.....		1	1					1
<i>Diseases of the digestive system.</i>								
Odontalgia.....		13	13					35
Cholera morbus.....		30	29	1				95
Colica.....		30	27	3				87
Constipatio.....		20	18	2				54
Congestio hepatis.....		7	7					102
Dyspepsia.....	2	33	29	4	1		1	257
Diarrhea acuta.....		193	174	17			2	636
Diarrhea chronica.....	2	5	6	1				107
Fistula in ano.....		2	2					20
Gastritis.....		4	3	1				164
Gastrodynia.....		2	1	1				14
Hæmorrhoids.....		12	10	2				101
Hepatitis acuta.....		1	1					21
Hepatitis chronica.....		1	1					36
Icterus.....		2	2					36
Pharyngitis.....		41	37	4				316
Rhagades ani.....	1		1					8
Stomatitis.....		2	2					11
Tonsillitis.....		138	123	14			1	666
Typhlitis.....		2	2					12
<i>Diseases of the lymphatic system.</i>								
Adenitis.....		18	12	6				311
<i>Diseases of the urinary system.</i>								
Albuminuria.....		5	2		1	2		351
Calculus.....		1	1					1
Cystitis.....	1	14	10	5				216
Enuresis.....		3	3					72
Ischuria.....		2	1	1				14
Nephritis.....		5	3	1		1		44
<i>Diseases of the generative system.</i>								
Balanitis.....		1	1					2
Chaneroides.....	1	16	13	2			2	254
Epididymitis.....		1	1					9
Hydrocele.....		1	1					3
Orchitis.....	1	6	4	3				83
Oedema.....		1		1				1
Phymosis.....		1	1					25

Navy-yards and stations—Detailed statement, 1887—Continued.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick days.
				To hospital.	From service.			
LOCAL DISEASES—Continued.								
<i>Diseases of the generative system—Cont'd.</i>								
Prostatitis		1	1					10
Spermatorrhœa		2	2					22
Urethra strictura		6	1	4			1	22
Varicocele		4	4					15
<i>Diseases of the locomotor system.</i>								
Ankylosis		1	1					5
Caries		1		1				8
Periostitis		2		2				12
Snyovitis		11	9	2				145
<i>Diseases of the integumentary system.</i>								
Abscessus		31	27	4				224
Acne		1	1					1
Anthrax	1	4	4	1				41
Clavus		3	3					9
Ecthyma		2	2					39
Eczema		4	4					38
Erythema		1	1					3
Furunculus		38	38					243
Herpes		2	2					16
Callosities		2	1				1	26
Lichen		1	1					8
Onychia		1	1					3
Paronychia		4	3	1				26
Psoriasis		1	1					8
Tinea		3	3					25
Ulcus	1	15	11	3	1		1	201
Unguis involutus		2	2					15
Urticaria		2	2					9
PARASITIC DISEASES.								
Vermes		1	1					3
POISONS.								
Colica pictonum		1	1					7
INJURIES, ETC.								
Abrasio		15	14	1				135
Ambustio		19	15	4				141
Concussio		3	2		1			112
Contusio		54	50	4				297
Fractura		9	4	3		1	1	126
Hernia		2	1	1				18
Luxatio		3	2	1				37
Stemma		80	75	5				695
Bunion		1	1					4
Vulnus contusum		23	21	1			1	221
Vulnus incisum		27	24	1			2	196
Vulnus laceratum	1	18	19					186
Vulnus punctum		7	7					28
Vulnus sclopetarium		2	1			1		6
Injury to great toe		1	1					8
Injury to right heel		1	1					12
Total	19	2,092	1,755	305	4	11	36	14,998

Naval hospitals—General aggregate, 1887.

Classification of diseases.	Remaining from last year.	Admitted.	Discharged to duty.	Invalided.		Died.	Remaining at the end of the year.	Total number of sick days.
				To hospital.	From service.			
Morbid states and processes irrespective of parts affected.....	8	32	21	1	7	2	9	1,979
General diseases dependent upon morbid poisons:								
Class 1.....	4	75	73				6	2,096
Class 2.....	6	62	59		5		4	2,124
Class 3.....	2	10	10				2	418
Class 4.....	16	105	92		9		20	6,364
General diseases dependent upon causes other than morbid poisons:								
Class 1.....		1	1					19
Class 2.....	4	61	58	1	1	1	4	1,561
Developmental diseases.....	4	11	8		2	1	4	2,162
Unclassified diseases.....	12	121	90	10	13	1	19	6,620
Local diseases:								
Diseases of the nervous system.....	26	87	52	18	18	6	19	7,888
Diseases of the eye.....	3	26	23		2		4	1,712
Diseases of the ear.....	1	4	4				1	85
Diseases of the nose.....	1	2	3					106
Diseases of the circulatory system.....	8	41	17	2	17	7	6	2,434
Diseases of the respiratory system.....	23	180	101	14	20	22	46	10,733
Diseases of the digestive system.....	20	118	107	3	5	5	18	4,238
Diseases of the lymphatic system.....	8	37	35	1	1		8	2,666
Diseases of the urinary system.....	2	24	17		2	2	5	1,660
Diseases of the generative system.....	8	76	69		1		14	3,390
Diseases of the locomotor system.....	2	13	9		4		2	901
Diseases of the integumentary system.....	10	62	49	1	5	1	16	4,173
Parasitic diseases.....		2	1				1	32
Tumors and cysts—malignant or non-malignant.....		5	2	2		1		271
Surgical operations.....		1			1			90
Injuries, etc.....	10	116	89	4	11	5	17	5,796
Total.....	178	1,272	990	57	124	54	225	69,513

Naval hospitals—Detailed statement, 1887.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick-days.
				To hospital.	From service.			
MORBID STATES AND PROCESSES IRRESPECTIVE OF PARTS AFFECTED.								
Adynamia.....	7	29	19	1	6	1	9	1,850
Hæmorrhagia.....		1	1					19
Hydrops.....	1	1	1					29
Tuberculosis.....	1	1			1	1		81
GENERAL DISEASES—DEPENDENT UPON MORBID POISONS.								
<i>Class 1.</i>								
Dysentæria acuta.....	1	5	6					211
Dysentæria chronica.....		1	1					34
Febris cerebro spinalis.....		1	1					19
Febris continua simplex.....		8	7				1	286
Febris enterica.....	2	7	8				1	345
Febris recidiva.....		1					1	77
Febris typhus.....		2	2					70
Febris typho-malarialis.....		1	1					42
Morbilli.....	1	26	25				2	454
Parotitis.....		14	14					384
Roseola.....		2	2					16

Naval hospitals—Detailed statement, 1887—Continued.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick-days.
				To hospital.	From service.			
GENERAL DISEASES—DEPENDENT UPON MORBID POISONS—Cont'd.								
Class 1—Continued.								
Scarlatina		1	1					60
Vaccina		4	3				1	79
Variola		2	2					69
Class 2.								
Cachexia malarialis		10	8		1		1	320
Febris intermittens	3	39	37		3		2	1,048
Febris remittens	3	13	14		1		1	756
Class 3.								
Erysipelas	1	10	9				2	380
Phagedæna	1		1					38
Class 4.								
Gonorrhœa	3	36	31				8	1,335
Syphilis primitiva	2	22	20				4	1,121
Syphilis consecutiva	11	47	41		9		8	3,908
GENERAL DISEASES DEPENDENT UPON CAUSES OTHER THAN MORBID POISONS.								
Class 1.								
Caloris effectus		1	1					19
Class 2.								
Alcoholismus	4	60	57	1	1	1	4	1,534
Scorbutus		1	1					27
DEVELOPMENTAL DISEASES.								
Senectus	4	11	8		2	1	4	2,162
UNCLASSIFIED DISEASES.								
Anæmia		2	1				1	74
Diabetes		2		1			1	46
Goitre		1	1					84
Podagra		6	5				1	55
Rheumatismus	7	83	55	9	12	1	13	4,089
Rheumatismus acutus	5	26	28		1		2	1,651
Scrofula		1					1	71
LOCAL DISEASES.								
Diseases of the nervous system.								
Apoplexia	1	2	1			1	1	233
Cephalalgia	1	1	2					31
Cerebritis	1		1					21
Convulsio	1	4	4				1	113
Congestio spinalis	1		1					305
Dementia	2	7	2	4	1	1	1	677
Encephalitis		1	1					17
Epilepsia	1	18	7	4	5	1	2	632
Imbecillitas		1			1			10
Irritatio spinalis		2	1		1			141
Mania		6	1	3	2			171
Melancholia	1	9	2	4	3		1	488
Morphia mania		1	1					40
Neuralgia	3	18	17	1	2		1	548
Neurasthenia		2	1				1	172
Paralysis	12	10	5	2	2	3	10	3,835
Pachy meningitis	1						1	365
Pleurodynia		1	1					7
Sciatica	1	1	1		1			48
Vertigo		3	3					34

Naval hospitals—Detailed statement, 1887—Continued.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick-days.
				To hospital.	From service.			
LOCAL DISEASES—Continued.								
<i>Diseases of the eye.</i>								
Asthenopia.....	1		1					78
Choroiditis.....		1			1			70
Cataracta.....		1					1	349
Conjunctivitis.....	1	8	8		1			489
Ectropium.....	1	1					1	89
Iritis.....	1	5	5				1	311
Keratitis.....		3	2				1	96
Myopia.....		3	3					169
Ophthalmia.....	1	1	1					5
Pterygium.....	1	1	1					27
Ulcus corneæ.....		2	2					29
<i>Diseases of the ear.</i>								
Otalgia.....		2	2					17
Otitis.....	1		1					5
Otorrhœa.....		1	1					18
Surditas.....		1					1	45
<i>Diseases of the nose.</i>								
Catarrhus nasalis.....	1		1					8
Epistaxis.....		1	1					17
Ozæna.....		1	1					81
<i>Diseases of the circulatory system.</i>								
Aneurysma.....	2	7	4	2	1	2		351
Angina pectoris.....		1	1					6
Hypertrophica cordis.....		5	1		3	1		164
Morbi valvularum cordis.....	4	16	5		8	4	3	1,364
Palpitation.....	2	7	5		3		1	276
Pericarditis.....		1			1			29
Syncope.....		1	1					7
Varix.....		3			1		2	237
<i>Diseases of the respiratory system.</i>								
Asthma.....	3	8	4	1	2	2	2	737
Bronchitis acuta.....	5	25	20		3		7	1,357
Bronchitis chronica.....		27	15	2	2		8	1,272
Catarrhus.....	2	19	17				4	390
Hæmoptysis.....		2	1				1	252
Laryngitis.....		8	6			1	1	277
Phthisis pneumonica acuta.....	1	9	2	3	1	1	3	716
Phthisis pneumonica chronica.....	11	49	12	7	12	13	16	4,612
Pleuritis.....		13	10				3	535
Pneumonia.....	1	20	14	1		5	1	585
<i>Diseases of the digestive system.</i>								
Ascites.....		1				1		19
Cholera morbus.....		3	3					74
Colica.....	1	7	7		1			116
Constipation.....		7	5	1			1	403
Congestio hepatis.....		1	1					28
Cirrhosis hepatis.....		2			1	1		24
Dyspepsia.....	3	11	11		1		2	834
Diarrhœa acuta.....		26	22	1			3	526
Diarrhœa chronica.....	2	3	3			2		263
Enteritis.....		3	3					85
Fistula in ano.....	1	1	1				1	166
Gastritis.....	2	4	5	1				178
Gastrodynia.....	1	1	2					5
Hæmatemesis.....		3	2				1	14
Hæmorrhoids.....	3	3	3		2		1	209
Hepatitis acuta.....		2	1			1		20
Hepatitis chronica.....	1	1	2					94
Icterus.....	1	4	3				2	271
Pharyngitis.....	1	8	8				1	320
Prolapsus ani.....		1	1					16

Naval hospitals—Detailed statement, 1887—Continued.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick-days.
				To hospital.	From service.			
LOCAL DISEASES—Continued.								
<i>Diseases of the digestive system—Continued.</i>								
Rhagades ani		1	1					12
Tonsillitis	2	25	21				6	459
Ulcus recti	2		2					102
<i>Diseases of the lymphatic system.</i>								
Adenites	8	35	34		1		8	2,644
Lymphadenosis		2	1	1				22
<i>Diseases of the urinary system.</i>								
Albuminuria		2				1	1	57
Congestio renalis		1	1					100
Cystitis	1	11	9				3	1,007
Enuresis		3	2				1	151
Foreign body in bladder		1	1					45
Hæmaturia		2	2					58
Nephritis	1	4	2		2	1		242
<i>Diseases of the generative system.</i>								
Balanitis		2	1				1	110
Chancroides	7	20	23				4	835
Epididymitis		2	2					52
Hydrocele	1		1					211
Orchitis		28	23		1		4	936
Paraphymosis		2	2					53
Phymosis		1					1	89
Prostatitis		1	1					200
Urethræ strictura		17	14				3	751
Urethritis		2	2					81
Varicocele		1					1	72
<i>Diseases of the locomotor system.</i>								
Ankylosis		1			1			52
Caries		2	2					154
Necrosis		1	1					24
Periostitis		4	3				1	166
Synovitis	2	5	3		3		1	505
<i>Diseases of the integumentary system.</i>								
Abscessus	4	22	19		1	1	5	1,547
Acne		1					1	14
Anthrax		5	3		1		1	153
Eczema	3	6	5	1	1		2	1,102
Erythema	1	1	2					26
Furunculus		3	2				1	147
Herpes	1	2	3					184
Lichen		1					1	2
Onychia		1	1					28
Paronychia		2	1		1			159
Psoriasis		1			1			53
Scabies		3	2		1		1	46
Ulcus	1	13	11				3	700
Unguis involutus		1					1	12
PARASITIC DISEASES.								
Vermes		2	1				1	32
TUMORS AND CYSTS (MALIGNANT OR NON-MALIGNANT).								
Carcinoma		1				1		53
Epithelioma		1	1					126
Neuroma		1	1					7
Carcinoma pulmonalis		2		2				85
SURGICAL OPERATIONS.								
Amputatio (right arm)		1			1			90

Naval hospitals—Detailed statement, 1878—Continued.

Diseases.	Remaining from last quarter.	Admitted.	Discharged to duty.	Invalided.		Died.	Continued to next quarter.	Total number of sick-days.
				To hospital.	From service.			
INJURIES, ETC.								
Ambustio.....		10	10					259
Concussio.....		7	3			1	3	187
Contusio.....	1	11	11				1	227
Fractura.....	4	32	25	1	1	4	5	2,468
Hornia.....	2	12	5	1	7		1	632
Luxatio.....		5	4		1			187
Stemma.....		18	16				2	875
Vulnus contusum.....		7	5	1			1	116
Vulnus incisum.....	2	1	2				1	38
Vulnus laceratum.....	1	6	5		1		1	288
Vulnus punctum.....		1	1					4
Vulnus sclopetarium.....		6	2	1	1		2	535
Total.....	178	1,272	990	57	124	54	225	69,513

Number of persons examined for the naval service during the year 1877.....	9,853
Number accepted.....	6,076
Number rejected.....	3,777
Color blind.....	165
Rejected per thousand.....	383+
Color blind per thousand.....	16+

Report of vaccination.

	Success-ful.	Unsuccess-ful.
No evidence of previous vaccination.....	205	282
Presenting good cicatrices.....	1,034	3,436
Evidence of former attack of small-pox.....	23	104

Ratio per thousand of admissions for each class of disease of the force afloat.

Classification of diseases.	Ratio.	Classification of diseases.	Ratio.
Morbid states and processes irrespective of parts affected.....	8.32	Local diseases—Continued:	
General diseases dependent upon morbid poisons:		Diseases of the circulatory system...	5.21
Class 1.....	52.85	Diseases of the respiratory system...	67.95
Class 2.....	55.29	Diseases of the digestive system...	143.90
Class 3.....	1.99	Diseases of the lymphatic system...	26.20
Class 4.....	57.40	Diseases of the urinary system...	6.21
General diseases dependent upon causes other than morbid poisons:		Diseases of the generative system...	42.74
Class 1.....	3.66	Diseases of the locomotor system...	3.10
Class 2.....	14.10	Diseases of the integumentary system...	102.15
Developmental diseases.....	.33	Parasitic diseases.....	.88
Unclassified diseases.....	63.40	Poisons.....	1.22
Local diseases:		Tumors and cysts:	
Diseases of the nervous system.....	35.75	Malignant and non-malignant.....	1.44
Diseases of the eye.....	12.10	Surgical operations.....	.33
Diseases of the ear.....	5.77	Injuries, etc.....	162.55
Diseases of the nose.....	2.99	Feigned diseases.....	.55
		Total.....	878.52

SUMMARY FORCE AFLOAT.

Daily average number of sick.....	171.73
Average number of days each case was under treatment.....	7.79
Admissions per thousand of mean strength.....	878.52
Invaliding per thousand of mean strength.....	88.38
Deaths per thousand of mean strength.....	3.77

General statistics.

Main strength of the Navy, including officers and men on duty, for the year 1887:	
Officers	1,368
Enlisted men	8,250
Total	9,618
Total number of cases under treatment during the year 1887:	
Naval hospitals	1,450
Navy-yards and shore stations	2,111
Vessels afloat and receiving ships	7,912
Total	11,473
Total number of deaths from all causes during the year 1887:	
Naval hospitals	54
Navy-yards and stations	11
Vessels afloat and receiving ships	34
Total	99
Ratio per thousand of deaths in the Navy for the year 1887, 10.29.	

Mortuary record of the Navy for the year 1887.

Causes of death.	Number of deaths.		
	Hos- pitals.	Stations and yards.	Ves- sels.
Adynamia	1		
Alcoholismus	1		1
Apoplexia	1	1	1
Aneurysma	2		1
Albuminuria	1	2	1
Asthma	2		
Ascites	1		
Abcessus	1		
Bronchitis acuta		1	2
Cirrhosis hepatis	1		
Carcinoma	1		
Concussio	1		
Dysenteria acuta			2
Dementia	1		
Diarrhœa chronica	2		
Epistaxis		1	
Epilepsia	1		
Febris cerebro spinalis			1
Fractura	4	1	3
Hypertrophia cordis	1		
Hepatitis acuta	1		
Laryngitis	1		
Morbi val. cordis	4	1	
Nephritis	1	1	1
Phthisis pneumonica acuta	1		1
Phthisis pneumonica chronica	13	1	2
Pneumonia	5		1
Paralysis cordis			1
Paralysis	3	1	
Rheumatismus	1		1
Submersio			10
Suicidium			1
Senectus	1		
Tuberculosis	1		
Urethræ strict			1
Vulnus laceratum			2
Vulnus sclopetarium		1	1
Total	54	11	34

CONTRACTS.

*Proposal for care and feed of horses (including care of vehicles) for naval dispensary,
Washington, D. C., June 27, 1887.*

Bidder.	Each per month.
John H. Clark.....	\$20. 00

One bid; contract awarded to John H. Clark.

Proposals for repairs of naval hospital, Pensacola, Fla., August 19, 1887.

Bidder.	Amount.
A. V. Chubbbs.....	\$1, 400. 00
Frank Swarez.....	925. 00
Robert Jackson.....	975. 00
Hugh McHatton.....	1, 052. 30

Contract awarded to Frank Swarez.

Proposal for repairs of roof, etc., of naval hospital, Brooklyn, N. Y., September 13, 1887.

Bidder.	Amount.
James White.....	\$2, 650. 00

One bid; contract awarded to James White.

*Proposals for repair and building addition to stable at naval laboratory, Brooklyn, N. Y.
September 9, 1887.*

Bidder.	Amount.
James Dillon.....	\$3, 274. 00
Thomas Hayden.....	3, 300. 00
Patrick Murphy.....	2, 625. 00
Charles Collins.....	3, 491. 00
P. J. Carlin.....	3, 150. 00
Long & Barnes.....	2, 971. 00
Alex. McKnight.....	2, 635. 75
John H. O'Rourke.....	4, 100. 00

Contract awarded to Patrick Murphy.

Proposals for repairs to steam machinery at naval laboratory, New York, September 9, 1887

Bidder.	Amount.
James Bulger	\$650.00
Andrew Keenan	795.00
Thaddeus Buck	675.00

Contract awarded to James Bulger.

Proposals for surgical instruments and appliances for naval laboratory, New York, September 16, 1887.

Bidder.	Class I.	Class II.
McKesson & Robbins	\$857.98	\$576.38
Hazard, Hazard & Co	879.00	No bid.

Contracts awarded to McKesson & Robbins for both classes.

Proposals for granite coping for naval hospital, Mare Island, California, September 26, 1887.

Bidder.	Amount.
M. J. Healy & Co.	\$300.00
Thomas M. Doyle	299.99

Contract awarded to Thomas M. Doyle.

Proposals for repairs to roof, etc., to naval hospital, Norfolk, Va., September 30, 1887.

Bidder.	Amount.
W. H. Barnard	\$750.00
J. V. Kiernan	590.00
James E. Wright	560.00
B. A. Richardson	470.00
John Massingham	390.00

Contract awarded to John Massingham.

Proposals for supplying oyster shells for naval hospital, Norfolk, Va., October 29, 1887.

Bidder.	Amount.
A. V. Grice	\$2,250.00
William A. Winston	2,480.00
George L. Neville	2,025.00
Nottingham & Wrenn	1,342.50
Baker & Cuffee	1,900.00
A. A. McCullough	2,175.00

Contract awarded to Nottingham & Wrenn.

Proposals for hardware, lumber, and paints to be supplied to naval laboratory, New York, December 15, 1887.

Bidder.	Class I. Hardware.	Class II. Lumber.	Class III. Paints.
John Swam & Co.	\$924. 99	.....	.....
F. T. Witte Hardware Co.	924. 50	.....	.....
R. A. Robbins	899. 08	.....	\$80. 75
A. F. Brombacher & Co.	874. 50	.....	61. 89
C. W. Keenan .....	.....	.....	52. 25
Dannat & Pell .....	.....	\$561. 34	81. 99
Joseph W. Duryee .....	.....	595. 12	.....

Contracts awarded to A. F. Brombacher & Co., Class I; Dannat & Pell, Class II; C. W. Keenan, Class III.

Proposals for supplying carpets, oil-cloths, etc., to naval hospitals, Brooklyn, N. Y., Chelsea, Mass., Norfolk, Va., and naval laboratory, Brooklyn, N. Y., December 30, 1887.

Bidder.	Class I. Chelsea, Mass.	Class II. Brooklyn, N. Y.	Class III. Norfolk, Va.
John H. Pray and Sons & Co.	\$370. 10	\$461. 59	\$269. 29
Rowland A. Robbins	439. 47	539. 55	301. 00
Hardenbergh & King	438. 62	453. 60	257. 85
John Wannamaker	390. 44	537. 30	270. 82
Ames & Stevens .....	.....	.....	357. 08
William Beni's Sons	384. 53	553. 58	276. 54
H. Wertheimer .....	.....	.....	262. 00

Class I awarded to John H. Pray and Sons & Co.; Classes II and III awarded to Hardenbergh & King.

Proposals for supplying surgical instruments and appliances, dispensary and hospital furniture and bedding to naval laboratory, Brooklyn, N. Y., February 28, 1888.

Bidder.	Class I. Surgical in- struments and appliances.	Class II. Dispensary and hospital furniture.	Class III. Bedding.
Peter H. McNulty .....	.....	.....	\$1, 514. 37
James R. Michael .....	.....	.....	1, 849. 20
R. A. Robbins	\$1, 280. 42	\$565. 82	1, 680. 18
George W. Marsh	1, 439. 90	.....	.....
McKesson & Robbins*	1, 424. 76	602. 84	.....
J. A. & C. H. Baldwin .....	.....	.....	1, 594. 81
W. W. Moyer* .....	.....	.....	.....

Classes I and II awarded to R. A. Robbins; Class III awarded to Peter H. McNulty.

*Bids informal; no guaranty; part only of class bid for.

Proposal for supplying furniture, household utensils, and hardware and kitchen furniture to Widow's Island Hospital, April 24, 1888.

Bidder.	Class I. Furniture.	Class II. Household utensils.	Class III. Hardware and kitchen utensils.
A. Ross Weeks		\$674. 98	\$635. 10

Classes II and III awarded to A. Ross Weeks, the only bidder; no bid on Class I.

Proposals for supplying the naval hospital at Portsmouth, N. H., for fiscal year 1888.

Articles.	Herman R. Paul.	Norton & Gerrish.	Clarence M. Prince.
CLASS I.			
Bacon, sides, sugar-cured.....per pound..	\$0.09	\$0.11	\$0.12
Beef, corned, Baltimore, ex. family.....do....	.12	.11	.10
Beef, roasting (exclusive of flank, neck, shoulder, or round pieces).....do....	.20	.19 ¹	.18
Beef-steak, prime cuts.....do....	.24	.24	.22
Beef, round, clear, no shin or flank.....do....	.15	.14 ¹	.14
Beef-shins.....do....	.06	.05	.05
Chickens, full-grown, killed and dressed.....do....	.22	.22 ¹	.20
Chickens, spring.....do....	.22	.25	.21
Fish, fresh.....do....	.07	.05	.06
Liver, fresh.....do....	.05	.05	.05
Mutton, prime, fore and hind quarters in equal number.....do....	.16	.15	.14
Mutton-chops.....do....	.16	.16	.16
Oysters, fresh and large.....per quart..	.30	.35	.30
Pork, salt.....per pound..	.12	.11	.10
Pork, fresh.....do....	.12	.15	.13
Pork sausage.....do....	.12	.14	.13
Pork-steak.....do....	.12	.14	.15
Turkey, killed and dressed.....do....	.24	.25	.22
Veal, hind quarter.....do....	.15	.13	.14
CLASS II.			
Apples.....per barrel..	2.00	1.90	.....
Apples, dried.....per pound..	.07	.08	.....
Beans, dried, mediums, white.....per bushel..	2.25	2.50	.....
Beer, lager.....per dozen..	.63	.63	.....
Brooms, corn, No. 1, patent.....do....	3.00	2.95	.....
Buckets, water, oak, 3-hoop.....do....	1.00	3.50	.....
Bath-brick.....do....	.25	.60	.....
Brushes, stove.....do....	.50	1.00	.....
Brushes, scrubbing.....do....	.50	1.00	.....
Brushes, dust, long-handled.....do....	1.00	2.00	.....
Barley, pearl.....per pound..	.07	.06	.....
Bluing, laundry, pint bottles.....per dozen..	.75	1.00	.....
Beans, string.....per bushel..	.50	.50	.....
Blacking, stove.....per pound..	.25	.24	.....
Beets.....per bushel..	.50	.40	.....
Cranberries.....do....	2.00	2.00	.....
Carrots.....per barrel..	.75	.60	.....
Cabbage, large heads.....per dozen..	1.20	1.10	.....
Corn, sweet ears.....do....	.25	.50	.....
Chocolate, Baker's.....per pound..	.38	.38	.....
Corn-meal, yellow, bolted.....do....	2.00	2.00	.....
Coffee, prime Rio, whole, roasted.....per dozen..	.35	.28	.....
Corn, canned, 2-pound tins.....per gross..	1.25	1.00	.....
Clothes-pins.....per gross..	.15	.25	.....
Candles, adamantine.....per pound..	.20	.17	.....
Crackers, water.....do....	.08	.07 ¹	.....
Farina.....do....	.08	.08	.....
Flour, best quality.....per barrel..	7.00	7.25	.....
Fish, salt.....per pound..	.06	.05	.....
Greens.....per bushel..	.25	.75	.....
Gelatine, 2-ounce packages.....per dozen..	1.50	1.50	.....
Hominy.....per pound..	.02	.02	.....
Hams, prime, sugar-cured.....do....	.16	.15	.....
Lard, prime, in tubs.....do....	.12	.10	.....
Lemon essence, 4-ounce bottles.....per dozen..	2.00	2.25	.....
Lemons.....do....	.25	.25	.....
Lye, concentrated.....do....	1.00	1.80	.....
Macaroni.....per pound..	.15	.15	.....
Mustard, Coleman's best.....do....	.25	.25	.....
Molasses, N. O., choice.....per gallon..	.55	.50	.....
Matches, safety.....per gross..	1.25	1.15	.....
Mackerel, No. 1.....per barrel..	1.00	6.00	.....
Onions.....per bushel..	1.25	1.00	.....
Oatmeal.....per pound..	5.00	4.90	.....
Oranges.....per dozen..	.15	.25	.....
Oil, sperm.....per gallon..	.30	.60	.....
Oil, salad, 8-ounce bottles.....per bottle..	.15	.42	.....
Oil, Pratt's astral.....per gallon..	.15	.17	.....
Parsnips.....per bushel..	.25	.50	.....
Peas, green.....do....	.50	.50	.....

Proposals for supplying the naval hospital at Portsmouth, N. H., etc.—Continued.

Articles.	Herman R. Paul.	Norton & Gerrish.	Clarence M. Prince.
CLASS II—Continued.			
Potatoes, Irish, early rose.....per barrel..	\$2.25	\$2.00	.....
Potatoes, sweet.....do.....	3.00	2.75	.....
Peaches, canned, 2-pound tins.....per dozen..	1.00	1.50	.....
Pepper, black, ground.....per pound..	.30	.25	.....
Peas, canned, 2-pound tins.....per dozen..	1.00	1.40	.....
Pickles, mixed.....per pound..	.05	.04	.....
Powder, baking, Royal.....do.....	.40	.45	.....
Powder, Persian insect.....do.....	.25	.50	.....
Prunes.....do.....	.08	.07½	.....
Rice, choice.....do.....	.07	.07	.....
Raisins, layer.....do.....	.18	.15	.....
Salt, table.....do.....	.02	.01½	.....
Salt, coarse.....per bushel..	.25	.50	.....
Soap, laundry, Higgins's best.....per pound..	.08	.09	.....
Soap, salt-water.....do.....	.05	.05	.....
Soap, toilet.....per box..	.25	.25	.....
Soap, soft.....per barrel..	.50	1.00	.....
Starch, corn.....per pound..	.12	.10	.....
Sapolo.....per dozen..	1.00	1.20	.....
Starch, laundry.....per pound..	.09	.08	.....
Spices, assorted.....do.....	.30	.40	.....
Sugar, white, standard block.....do.....	.10	.10	.....
Sugar, granulated, standard.....do.....	.10	.08½	.....
Sugar, yellow, light.....do.....	.10	.07	.....
Soda, washing.....do.....	.05	.04	.....
Squash.....per bushel..	2.00	2.00	.....
Tomatoes, fresh.....per barrel..	.50	1.00	.....
Turnips.....do.....	.50	.60	.....
Tapioca.....per pound..	.06	.06½	.....
Tea, Oolong, best.....do.....	.60	.60	.....
Tomatoes, 3-pound tins.....per dozen..	1.40	1.30	.....
Vermicelli.....per pound..	.15	.15	.....
Vinegar, best cider.....per gallon..	.25	.25	.....
Vanilla essence, 4-ounce bottles.....per dozen..	1.50	1.50	.....
Wax-tapers, lighting.....per box..	.10	.20	.....
CLASS III.			
Butter, choice, new creamery.....per pound..	.30	.30	\$0.28
Cheese, prime.....do.....	.16	.12	.15
Eggs, fresh and large.....per dozen..	.28	.28	.24
CLASS V.			
Milk, pure.....per quart..	.06	.07	.....
CLASS VI.			
Bread, fresh, 1-pound loaves.....per pound..	.07	.07	.....

Classes I and III awarded to Clarence M. Prince; Class II awarded to Norton & Gerrish; Classes V and VI awarded to Herman R. Paul.

Proposals for supplying the naval hospital at Chelsea, Mass., for fiscal year 1888.

Articles.	Boston Ice Co.	Chas. A. Simonds.	Andrew J. Bacon & Co.	Michael J. Doran.	Horace P. Stevens.
CLASS I.					
Bacon, sides, sugar-cured.....per pound.....		\$0.06	\$0.11	\$0.12	\$0.09
Beef, corned, Baltimore, extra family.....do.....		.06	.05	.08	.05
Beef, roasting (exclusive of flank, neck, shoulder, or round (pieces).....per pound.....		.08	.07	.08	.07
Beef-steak, prime cuts.....do.....		.15	.18	.20	.10
Beef, round, clear, no shin or flank.....do.....		.07	.08	.13	.07
Beef-shins.....do.....		.02	.01½	.03	.02½
Chickens, full-grown, killed and dressed.....do.....		.16½	.15	.17	.15
Chickens, spring.....do.....		.20	.20	.32	.18
Fish, fresh.....do.....		.04	.04½	.07	.04
Liver, fresh.....do.....		.03	.05	.05	.03
Mutton, prime, fore and hind quarters in equal number.....do.....		.09	.08½	.10	.08
Mutton-chops.....do.....		.12	.08½	.13	.10
Oysters, fresh and large.....per quart.....		.25	.32	.35	.23
Pork, salt.....per pound.....		.06	.07½	.09	.06
Pork, fresh.....do.....		.06	.08	.10	.06
Pork sausage.....do.....		.06	.08	.10	.06
Pork-steak.....do.....		.06	.08	.10	.06
Turkey, killed and dressed.....do.....		.16½	.14	.17	.15
Veal, hind quarter.....do.....		.10	.07	.13	.08
CLASS II.					
Axle-grease.....per box.....		.10	.08	.10	.05
Apples.....per barrel.....		2.00	1.25	2.00	1.50
Apples, dried.....per pound.....		.02	.04	.04	.02
Beans, dried, medium, white.....per bushel.....		1.60	1.85	1.65	1.50
Beer, lager.....per dozen.....		.70	.63	.55	.65
Brooms, corn, No. 1, patent.....do.....		2.00	2.50	2.70	1.50
Buckets, water, oak, 3-hoop.....do.....		2.00	5.50	5.00	1.00
Bath-brick.....do.....		.10	.25	.40	.10
Brushes, stove.....do.....		1.25	1.50	1.50	.25
Brushes, scrubbing.....do.....		1.25	1.00	1.50	1.00
Brushes, dust, long-handled.....do.....		1.45	6.00	8.00	.50
Barley, pearl.....per pound.....		.02	.04½	.05	.01
Bluing, laundry, pint bottles.....per dozen.....		1.00	1.13	.90	1.00
Beans, string.....per bushel.....		.20	.60	.60	.25
Blacking, stove.....per pound.....		.15	.15	.12	.02
Beets.....per bushel.....		.23	.60	.50	.10
Cranberries.....do.....		.75	.75	2.00	.75
Carrots.....per barrel.....		.50	.60	1.25	.25
Cabbage, large heads.....per dozen.....		.50	.70	.95	.50
Corn, sweet, ears.....per 100.....		.75	.75	1.75	.50
Chocolate, Baker's.....per pound.....		.33	.38	.40	.30
Corn-meal, yellow, bolted.....per 100 pounds.....		1.00	1.25	1.75	1.00
Coffee, prime Rio, whole, roasted.....per pound.....		.25	.22½	.24	.15
Corn, canned, 2-lb tins.....per dozen.....		1.00	1.10	1.25	.90
Clothes-pins.....per gross.....		.08	.12	.14	.10
Candles, adamantine.....per pound.....		.15	.12	.14	.15
Crackers, water.....do.....		.10	.12	.11	.05
Farina.....do.....		.10	.09	.10	.10
Flour, best quality.....per barrel.....		5.50	5.50	5.50	4.00
Fish, salt.....per pound.....		.02	.04	.06	.02½
Greens.....per bushel.....		.10	.25	.40	.10
Gelatine, 2-ounce packages.....per dozen.....		.75	1.10	1.30	.75
Hominy.....per pound.....		.02	.02	.05	.02
Hams, prime, sugar-cured.....do.....		.11	.12	.12	.10
Lard, prime, in tubs.....do.....		.06½	.05	.07½	.03
Lemon essence, 4-ounce bottles.....per dozen.....		.50	1.65	2.00	.15
Lemons.....do.....		.18	.18	.20	.20
Lye, concentrated.....do.....		.75	1.13	.95	.75
Macaroni.....per pound.....		.08	.08	.11	.07
Mustard, Coleman's best.....do.....		.18	.28	.25	.10
Molasses, N. O. choice.....per gallon.....		.25	.45	.40	.25
Matches, safety.....per gross.....		.55	2.10	.55	.50
Mackerel, No. 1.....per half barrel.....		7.00	12.30	5.00	3.50
Onions.....per bushel.....		1.00	.90	.70	.75
Oatmeal.....per 100 pounds.....		3.00	2.75	3.50	3.00
Oranges.....per dozen.....		.20	.15	.30	.20
Oil, sperm.....per gallon.....		.70	.95	.90	.50
Oil, salad, 8-ounce bottles.....per bottle.....		.50	.21	.10	.25
Oil, Pratt's astral.....per gallon.....		.10	.14	.10½	.06½

Proposals for supplying the naval hospital at Chelsea, Mass., for fiscal year 1888—Cont'd.

Articles.	Boston Ice Co.	Chas. A. Simonds.	Andrew J. Bacon & Co.	Michael J. Doran.	Horace P. Stevens.
CLASS II—Continued.					
Parsnips.....per bushel.....		\$0.50	\$0.60	\$0.75	\$0.10
Peas, green.....do.....		.60	.75	1.00	.25
Potatoes, Irish, Early Rose.....per barrel.....		1.85	1.80	1.80	1.85
Potatoes, sweet.....do.....		1.50	2.00	2.25	1.25
Peaches, canned, 2-pound tins.....per dozen.....		.95	.90	1.30	1.00
Pepper, black, ground.....per pound.....		.15	.20	.30	.10
Peas, canned, 2-pound tins.....per dozen.....		1.10	.90	1.35	.75
Pickles, mixed.....per pound.....		.05	.04	.05	.05
Powder, baking, Royal.....do.....		.23	.38	.43	.05
Powder, Persian insect.....do.....		.15	.60	.25	.30
Prunes.....do.....		.08	.09	.06½	.05
Rice, choice.....do.....		.06½	.04	.07	.05
Raisins, layer.....do.....		.10	.15	.10	.10
Salt, table.....do.....		.00½	.00½	.02	.00½
Salt, coarse.....per bushel.....		.10	.35	.40	.10
Soap, laundry, Higgins's best.....per pound.....		.05½	.04	.06	.05
Soap, salt-water.....do.....		.02	.03	.06	.00½
Soap, toilet.....per box.....		.07	.22	.50	.10
Soap, soft.....per barrel.....		.75	2.30	2.00	.50
Starch, corn.....per pound.....		.09	.07	.07	.06
Sapolo.....per dozen.....		.50	.75	.95	.75
Starch, laundry.....per pound.....		.04	.05	.05	.04
Spices, assorted.....do.....		.10	.25	.25	.10
Sugar, white, standard block.....do.....		.04½	.07	.07	.05
Sugar, granulated, standard.....do.....		.07	.06½	.06½	.07
Sugar, yellow, light.....do.....		.04	.05	.05	.02
Soda, washing.....do.....		.00½	.01½	.02	.01
Squash.....per 100 pounds.....		.50	1.50	2.00	.50
Tomatoes, fresh.....per bushel.....		.25	.50	.50	.15
Turnips.....per barrel.....		.70	1.00	1.25	.50
Taploca.....per pound.....		.02	.05	.07	.02
Tea, Oolong, best.....do.....		.35	.30	.40	.28
Tomatoes, 8-pound tins.....per dozen.....		1.10	1.15	1.20	.90
Vermicelli.....per pound.....		.02	.09	.07	.02
Vinegar, best cider.....per gallon.....		.12	.13	.15	.10
Vanilla essence, 4-ounce bottles.....per dozen.....		.20	1.35	3.00	.10
Wax tapers, lighting.....per box.....		.10	.38	.16	.10
CLASS III.					
Butter, choice, new creamery.....per pound.....		.24½	.25	.25	.23
Cheese, prime.....do.....		.09	.09	.10	.05
Eggs, fresh and large.....per dozen.....		.24½	.25	.25	.23
CLASS IV.					
Ice.....per 100 pounds.....	\$0.20	.20			.12½
CLASS V.					
Milk, pure.....per quart.....		.04½	.04½	.05	.04½
CLASS VI.					
Bread, fresh, 1-pound loaves.....per pound.....		.03½	.03½	.03	.03
CLASS VII.					
Bran.....per pound.....		.50			.15
Corn (horse-feed).....per bushel.....		.60			.55
Corn-meal, unbolted, yellow.....per 100 pounds.....		.50			.25
Feed, fine.....do.....		.50			.10
Hay, loose, best timothy.....do.....		1.00			.25
Hay, baled, best timothy.....do.....		1.00			.25
Oats, No. 1, white.....per bushel.....		.55			.50
Straw, baled.....per 100 pounds.....		1.00			.25
Shorts.....per bushel.....		.28			.25
Screenings.....do.....		.25			.10

Contract for Classes I, II, III, IV, V, VI, VII awarded to Horace P. Stevens.

Proposals for supplying the naval hospital at Brooklyn, N. Y., for fiscal year 1888.

Articles.													
CLASS I.													
	James J. Lyons.	John Harrison.	W. H. Belford.	W. J. Belford.	George W. Child.	John McNamara.	Richard Schierenbeck.	W. Wright.	John Hanley.	Anton Behlen.	Andrew Kooh.	Knickerbocker Ice Company.	
Bacon, sides, sugar-cured.....per pound.....	\$0.11	\$0.10							\$0.08				
Beef, corned, Baltimore, extra family.....do.....	.06	.06							.06				
Beef, roasting (exclusive of flank, neck, shoulder, or round pieces).....do.....	.12	.12							.10				
Beef-steak, prime cuts.....do.....	.14	.08							.10				
Beef round, clear, no shin or flank.....do.....	.10	.10							.08				
Beefshins.....do.....	.05	.04							.03				
Chickens, full-grown, killed and dressed.....do.....	.14	.08							.10				
Chickens, spring.....do.....	.18	.08							.10				
Fish, fresh.....do.....	.07	.06							.04				
Liver, fresh.....do.....	.03	.02							.02				
Mutton, prime, fore and hind quarters in equal number.....do.....	.09	.06							.06				
Mutton chops.....do.....	.12	.08							.06				
Oysters, fresh and large.....per quart.....	.20	.10							.10				
Pork, salt.....do.....	.09	.06							.08				
Pork, fresh.....do.....	.09	.06							.08				
Pork-sausage.....do.....	.09	.06							.08				
Pork-steak.....do.....	.09	.12							.08				
Turkey, killed and dressed.....do.....	.14	.06							.12				
Veal, hind quarter.....do.....	.12	.06							.12				
CLASS II.													
Axle-grease.....per box.....	\$0.10	\$0.10					\$0.08				\$0.10		
Apples.....per barrel.....	2.00	1.70					1.70				1.65		
Apples, dried.....per pound.....	4.00	.08					.08				.10		
Beans, dried, mediums, white.....per bushel.....	2.00	1.75					1.75				1.75		
Beer, lager.....per dozen.....	.50	.55					.50				.50		
Brooms, corn, No. 1, patent.....do.....	3.00	2.48					2.50				2.50		
Buckets, water, oak, 3-hoop.....do.....	1.00	2.00					2.00				2.00		
Bath-brick.....do.....	1.00	.35					.40				.35		
Brushes, stove.....do.....	1.00	1.00					2.00				2.00		
Brushes, scrubbing.....do.....	1.50	1.10					1.00				1.00		
Brushes, dust, long-handled.....do.....	4.00	1.75					2.75				2.50		
Barley, pearl.....per pound.....	4.00	.03½					.02½				.02½		
Blueing, laundry, pint bottles.....per dozen.....	.60	.75					.80				.75		

Proposals for supplying the naval hospital at Brooklyn, N. Y., for fiscal year 1888—Continued.

Articles.	James J. Lyons.	John Harrison.	W. H. Belford.	W. J. Belford.	George W. Child.	John McNamara.	Richard Schierenbeck.	W. Wright.	John Hanley.	Anton Behlen.	Andrew Koell.	Knickerbocker Ice Company.
CLASS VI.												
Bread, fresh, 1-pound loaves.....per pound..		\$0.03							\$0.03½	\$0.02½		
CLASS VII.												
Bran.....per 100 pounds.....		\$1.00	\$1.00		\$0.95						\$1.10	
Corn (horse-feed).....per bushel.....		.60	.65		.70						.70	
Corn-meal, unbolted, yellow.....per 100 pounds.....		1.50	1.37		1.10						1.40	
Feed, fine.....do.....		1.00	.75		.95						.90	
Hay, loose, best timothy.....do.....		1.00	1.15		1.35						1.30	
Hay, baled, best timothy.....do.....		1.00	1.20		1.25						1.25	
Oats, No. 1, white.....per bushel.....		.50	.60		.50						.55	
Straw, baled.....per 100 pounds.....		.50	1.05		.90						1.15	
Shorts.....per bushel.....		.25	.05		.20						.05	
Screenings.....do.....		.10	.53		.40						.55	
CLASS VIII.												
Gas.....per 1,000 feet.....		2.00										
CLASS IX.												
Water.....per gallon.....		.02										

Class I, awarded to John Hanley; Class II, awarded to Andrew Koch; Classes III and VII, awarded to John Harrison; Class IV, awarded to W. J. Belford; Class V, awarded to W. Wright; Class VI, awarded to Anton Behlen.

Proposals for supplying the naval laboratory, Brooklyn, for fiscal year 1888.

Articles.	John Harrison.	W. H. Belford.	Geo. W. Child.	Andrew Koch.
CLASS VII.				
Bran.....per pound..	\$1.00	\$1.00	\$0.95	\$1.10
Corn (horse-feed).....per bushel..	.60	.65	.70	.70
Corn-meal, unboltsed, yellow.....per pound..	1.15	1.37	1.10	1.40
Feed, fine.....do.....	1.00	.75	.95	.90
Hay, loose, best timothy.....per 100 pounds..	1.00	1.15	1.35	1.30
Hay, baled, best timothy.....do.....	1.00	1.20	1.25	1.30
Oats, No. 1, white.....per bushel..	.50	.60	.50	.55
Straw, baled.....per 100 pounds..	.50	1.05	.90	1.15
Shorts.....per bushel..	.25	.05	.20	.05
Screenings.....do.....	.10	.53	.40	.55

Class VII awarded to John Harrison.

Proposals for supplying the naval hospital at Philadelphia for fiscal year 1888.

Articles.	Frederick Shuler.	Phillip I. Badamer.	Robert McKeown.	Knickerbocker Ice Co.	John T. Strickland.	William Deering.	Commercial Ice Co.
CLASS I.							
Bacon, sides, sugar-cured.....per pound..					\$0.10		
Beef, corned, Baltimore, ex. family.....do.....					.10		
Beef, roasting (exclusive of flank, neck, shoulder, or round pieces).....per pound..					.16		
Beefsteak, prime cuts.....do.....					.22		
Beef, round, clear, no shin or flank.....do.....					.14		
Beef-shins.....do.....					.02		
Chickens, full-grown, killed and dressed do.....					.18		
Chickens, spring.....do.....					.30		
Fish, fresh.....do.....					.10		
Liver, fresh.....do.....					.02		
Mutton, prime, fore and hind quarters in equal number.....per pound..					.10		
Mutton-chops.....do.....					.16		
Oysters, fresh and large.....per hundred..					1.00		
Pork, salt.....per pound..					.10		
Pork, fresh.....do.....					.08		
Pork sausage.....do.....					.10		
Pork steak.....do.....					.12		
Turkey, killed and dressed.....do.....					.15		
Veal, hind quarter.....do.....					.10		
CLASS II.							
Apples.....per barrel..	\$5.00	\$3.00	\$3.00			\$3.50	
Apples, dried.....per pound..	.15	.06	.05			.10	
Beans, dried, medium, white.....per bushel..	2.40	1.90	2.00			1.85	
Beer, lager.....per dozen..	.90	1.00	.62			.75	
Brooms, corn, No. 1, patent.....do.....	3.50	2.50	2.50			3.50	
Buckets, water, oak, 3-hoop.....do.....	3.75	3.50	1.80			3.00	
Bath-brick.....do.....	.50	.90	.35			.83	
Brushes, stove.....do.....	3.50	2.00	2.50			3.50	
Brushes, scrubbing.....do.....	3.50	.75	1.25			2.50	
Brushes, dust, long-handled.....do.....	7.50	3.00	3.00			4.50	
Barley, pearl.....per pound..	.05	.03½	.03½			.04	
Bluing, laundry, pint bottles.....per dozen..	2.50	1.40	1.00			1.10	
Beans, string.....per bushel..	1.50	1.50	.50			3.00	
Blacking, stove.....per pound..	.25	.09	.50			.17	
Beets.....per bushel..	1.00	1.00	.01½			1.25	
Cranberries.....do.....	3.50	3.00	1.00			2.20	
Carrots.....per barrel..	1.80	2.50	.12			2.50	
Cabbage, large heads.....per dozen..	1.50	.75	.30			.60	
Corn, sweet-ears.....per hundred..	1.50	2.00	1.00			1.50	
Chocolate, Baker's.....per pound..	.40	.36	.37			.38	
Corn-meal, yellow, bolted.....per 100 pounds..	2.00	2.00	1.50			1.50	
Coffee, prime Rio, whole, roasted.....per pound..	.30	.22	.20			.26	
Corn, canned, 2-pound tins.....per dozen..	1.60	1.20	1.00			1.05	
Clothes-pins.....per gross..	.30	.25	.15			.25	
Candles, adamantine.....per pound..	.15	.11	.12			.12	
Crackers, water.....do.....	.10	.08	.08			.08	

Proposals for supplying the naval hospital at Philadelphia for fiscal year 1888.—Cont'd.

Articles.	Frederick Shuler.	Philip I. Badamer.	Robert McKeown.	Knickerbocker Ice Co.	John T. Strickland.	William Deering.	Ice Commercial Co.
CLASS II—Continued.							
Farina.....	per pound..	\$0.06	\$0.06½	\$0.06		\$0.09½	
Flour, best quality.....	per barrel..	7.50	6.00	6.00		5.75	
Fish, salt.....	per pound..	.02	.05	.05		.05½	
Greens.....	per bushel..	.50	.75	.10		1.00	
Gelatine, 2-ounce packages.....	per dozen..	1.55	1.55	1.50		1.65	
Hominy.....	per pound..	.03	.04½	.01		.02	
Hams, prime, sugar-cured.....	do.....	.15	.12½	.13		.13½	
Lard, prime, in tubs.....	do.....	.10	.07½	.01		.09	
Lemon essence, 4-ounce bottles.....	per dozen..	2.50	2.35	1.25		2.10	
Lemons.....	do.....	.25	.15	.20		.40	
Lye, concentrated.....	do.....	1.25	.90	.70		1.00	
Macaroni.....	per pound..	.15	.09	.06		.10	
Mustard, Coleman's best.....	do.....	.50	.42½	.20		.19	
Molasses, N. O. choice.....	per gallon..	.75	.55	.40		.75	
Matches, safety.....	per gross..	1.50	1.25	1.25		2.20	
Mackerel, No. 1.....	per ¼ barrel..	15.00	13.00	10.00		11.00	
Onions.....	per bushel..	2.00	.90	1.00		1.10	
Oatmeal.....	per 100 pounds..	4.00	3.25	3.50		3.00	
Oranges.....	per dozen..	.60	.25	.20		.30	
Oil, sperm.....	per gallon..	.80	.50	.75		2.50	
Oil, salad, 8-ounce bottles.....	per bottle..	.50	.55	.07		.33	
Oil, Pratt's astral.....	per gallon..	.25	.50	.75		.23	
Parasnis.....	per bushel..	.50	.90	.10		1.50	
Peas, green.....	do.....	1.00	1.25	.50		1.65	
Potatoes, Irish, early rose.....	do.....	1.10	.75	.80		.85	
Potatoes, sweet.....	do.....	1.00	.90	.75		.85	
Peaches, canned, two-pound tins.....	per dozen..	2.00	1.65	1.25		1.50	
Pepper, black, ground.....	per pound..	.20	.19	.14		.18	
Peas, canned, two-pound tins.....	per dozen..	1.60	1.20	1.00		1.40	
Pickles, mixed.....	per bucket..	1.25	1.50	1.10		1.10	
Powder, baking, Royal.....	per pound..	.50	.42	.10		.48	
Powder, Persian insect.....	do.....	.60	.65	.50		.80	
Prunes.....	do.....	.10	.06½	.09		.06½	
Rice, choice.....	do.....	.07	.06½	.06		.06½	
Raisins, layer.....	do.....	.25	.20	.10		.20	
Salt, table.....	do.....	.02	.01½	.01½		.01	
Salt, coarse.....	per bushel..	.01½	.05	.40		.60	
Soap, laundry, Higgins' best.....	per pound..	.04½	.06½	.03½		.05½	
Soap, salt-water.....	do.....	.75	.10	.02		.10	
Soap, toilet.....	per box.....	1.25	.45	.15		1.40	
Soap, soft.....	per barrel..	1.50	1.10	1.00		1.15	
Starch, corn.....	per pound..	.09	.06	.06½		.08	
Sapolio.....	per dozen..	1.00	1.00	.85		1.00	
Starch, laundry.....	per pound..	.06	.03½	.05		.05	
Spices, assorted.....	do.....	.25	.23	.25		.28	
Sugar, white, standard block.....	do.....	.09	.07	.07		.08	
Sugar, granulated, standard.....	do.....	.08	.06	.06½		.06½	
Sugar, yellow, light.....	do.....	.06	.05	.05½		.05½	
Soda, washing.....	do.....	.02	.01½	.01½		.01½	
Squash.....	per hundred..	2.00	2.00	1.00		1.00	
Tomatoes, fresh.....	per bushel..	1.00	.90	.40		.70	
Turnips.....	per barrel..	1.50	2.25	.40		2.50	
Tapioca.....	per pound..	.08	.04½	.06		.06	
Tea, Oolong, best.....	do.....	.60	.45	.30		.38	
Tomatoes, three-pound tins.....	per dozen..	1.20	1.10	.90		1.05	
Vermicelli.....	per pound..	.15	.10	.07		.11	
Vinegar, best cider.....	per gallon..	.25	.15	.14		.23	
Vanilla essence, four-ounce bottles.....	per dozen..	5.00	3.25	2.00		2.10	
Wax tapers, lighting.....	per box.....	.25	.25	.18		.20	
CLASS III.							
Butter, choice, new creamery.....	per pound..			.28		.35	
Cheese, prime.....	do.....			.01		.03	
Eggs, fresh and large.....	per dozen..			.24		.30	
CLASS IV.							
Ice.....	per 100 pounds..				\$0.30	.30	\$0.30
CLASS V.							
Milk, pure.....	per quart..					.06½	
CLASS VI.							
Bread, fresh, 1-pound loaves.....	per pound..			.03½		.05½	

Classes I, IV, and V awarded to John T. Strickland. Classes II, III, and VI awarded to Robert McKeown.

Proposals for supplying the naval hospital at Washington, D. C., for fiscal year 1888.

Articles.	Browning & Middleton.	J. B. Bryan.	F. P. Seibert.	George M. Oyster & Co.
CLASS I.				
Bacon, sides, sugar-cured.....per pound	\$0.09		\$0.12	
Beef, corned, Baltimore, extra family.....do	.08		.07	
Beef, roasting (exclusive of flank, neck, shoulder, or round pieces).....per pound	.15		.12½	
Beef-steak, prime cuts.....do	.19		.18	
Beef, round, clear, no shin or flank.....do	.15		.12½	
Beef-shins.....do	.05		.03	
Chickens, full-grown, killed and dressed.....do	.16		.16	
Chickens, spring.....do	.18		.16	
Fish, fresh.....do	.12½		.13	
Liver, fresh.....do	.10		.02	
Mutton, prime, fore and hind quarters in equal number.....do	.15		.12	
Mutton-chops.....do	.15		.15	
Oysters, fresh and large.....per quart	.31½		.20	
Pork, salt.....per pound	.11½		.08	
Pork, fresh.....do	.11½		.10	
Pork-sausage.....do	.11½		.09	
Pork-steak.....do	.11½		.09	
Turkey, killed and dressed.....do	.18		.22	
Veal, hind quarter.....do	.15		.12½	
CLASS II.				
Axle-grease.....per box	.06½	\$0.06		
Apples.....per barrel	3.00	3.25		
Apples, dried.....per pound	.06	.05½		
Beans, dried, medium, white.....per bushel	1.90	2.10		
Beer, lager.....per dozen	.70	.50		
Brooms, corn, No. 1, patent.....do	2.75	2.50		
Buckets, water, oak, 3-hoop.....do	1.75	3.40		
Bath-brick.....do	.05	.50		
Brushes, stove.....do	1.50	1.60		
Brushes, scrubbing.....do	1.25	1.25		
Brushes, dust, long-handled.....do	12.00	12.00		
Barley, pearl.....per pound	.05	.04½		
Bluing, laundry, pint bottles.....per dozen	.70	1.00		
Beans, string.....per bushel	.50	1.62		
Blacking, stove.....per pound	.15	.25		
Beets.....per bushel	1.00	1.00		
Cranberries.....do	2.25	2.15		
Carrots.....per barrel	2.50	1.65		
Cabbage, large heads.....per dozen	1.20	1.40		
Corn, sweet-ears.....number	1.50	1.35		
Chocolate, Baker's.....per pound	.37	.37½		
Corn-meal, yellow, bolted.....per 100 pounds	2.12½	1.25		
Coffee, prime Rio, whole, roasted.....per pound	.20	.24½		
Corn, canned, 2-pound tins.....per dozen	.95	.95		
Clothes-pins.....per gross	.10	.35		
Candles, adamantine.....per pound	.08	.11		
Crackers, water.....do	.06	.08		
Farina.....do	.10	.10		
Flour, best quality.....per barrel	5.75	5.00		
Fish, salt.....per pound	.05	.05½		
Greens.....per bushel	.25	.60		
Gelatine, 2-ounce packages.....per dozen	1.56	1.62		
Hominy.....per pound	.02½	.02		
Hams, prime, sugar-cured.....do	.12½	.12½		
Lard, prime, in tubs.....do	.07½	.07½		
Lemon essence, 4-ounce bottles.....per dozen	2.50	3.00		
Lemons.....do	.25	.18		
Lye, concentrated.....do	.75	.75		
Macaroni.....per pound	.10½	.09		
Mustard, Coleman's best.....do	.25	.40		
Molasses, N. O. choice.....per gallon	.40	.39		
Matches, safety.....per gross	1.00	2.05		
Mackerel, No. 1.....per barrel	10.00	9.15		
Onions.....per bushel	2.00	1.50		
Oatmeal.....per 100 pounds	3.25	3.18		
Oranges.....per dozen	.35	.33		
Oil, sperm.....per gallon	1.00	1.10		
Oil, salad, 8-ounce bottles.....per bottle	.35	.25		

Proposals for supplying the naval hospital at Washington, D. C., etc.—Continued.

Articles.	Browning & Middleton.	J. B. Bryan.	F. P. Seibert.	George M. Oyster & Co.
CLASS II—Continued.				
Oil, Pratt's astral.....per gallon.....	\$0.18	\$0.20		
Parsnips.....per bushel.....	.50	.75		
Peas, green.....do.....	.50	1.00		
Potatoes, Irish, early rose.....per barrel.....	2.50	2.20		
Potatoes, sweet.....do.....	2.00	2.45		
Peaches, canned, 2-pound tins.....per dozen.....	1.25	1.70		
Pepper, black, ground.....per pound.....	.24	.18		
Peas, canned, 2-pound tins.....per dozen.....	1.25	1.90		
Pickles, mixed.....per pound.....	.10	.12		
Powder, baking, Royal.....do.....	.42	.40		
Powder, Persian insect.....do.....	.30	.55		
Prunes.....do.....	.05	.06		
Rice, choice.....do.....	.06	.05½		
Raisins, layer.....do.....	.10	.14		
Salt, table.....do.....	.01	.00¾		
Salt, coarse.....per bushel.....	.50	.35		
Soap, laundry, Higgins' best.....per pound.....	.06½	.05		
Soap, salt-water.....do.....	.08	.10		
Soap, toilet.....per box.....	.25	.60		
Soap, soft.....per barrel.....	2.00	2.10		
Starch, corn.....per pound.....	.07	.05		
Sapallo.....per dozen.....	.90	.96		
Starch, laundry.....per pound.....	.04	.04½		
Spices, assorted.....do.....	.25	.35		
Sugar, white, standard block.....do.....	.07½	.07		
Sugar, granulated, standard.....do.....	.06½	.06½		
Sugar, yellow, light.....do.....	.05	.05		
Soda, washing.....do.....	.01½	.01½		
Squash.....do.....	.50	3.75		
Tomatoes, fresh.....per bushel.....	.75	.90		
Turnips.....per barrel.....	.50	1.10		
Tapioca.....per pound.....	.06½	.06		
Tea, Oolong, best.....do.....	.35	.35		
Tomatoes, 3-pound tins.....per dozen.....	.92	.89		
Vermicelli.....per pound.....	.10½	.10		
Vinegar, best cider.....per gallon.....	.19	.16		
Vanilla essence, 4-ounce bottles.....per dozen.....	3.00	3.00		
Wax tapers, lighting.....per box.....	15	.15		
CLASS III.				
Butter, choice, new creamery.....per pound.....	.29	.29		\$0.29
Cheese, prime.....do.....	.10	.12		.15
Eggs, fresh and large.....per dozen.....	.24	.22		.28
CLASS IV.				
Ice.....per 100 pounds.....	.40			
CLASS V.				
Milk, pure.....per quart.....	.06			
CLASS VI.				
Bread, fresh, 1-pound loaves.....per pound.....	.04½			

Class I awarded to F. P. Seibert. Classes II, IV, V, and VI awarded to Browning & Middleton. Class III awarded to J. B. Bryan.

Proposals for supplying naval hospital at Norfolk, Va., for fiscal year 1888.

Articles.													
CLASS I.													
	Conrad Horst.	John A. Codd.	J. T. Parker.	W. G. Maupin.	Kate C. Brady.	L. Morris.	Thomas J. Barlow.	Charles R. Robertson.	Niemeyer & Co.	O. L. Williams.	R. T. Miles.	C. R. Nash.	
Bacon, sides, sugar-cured.....	\$0.0920	\$0.0745	.....	.....	.....	.....	\$0.10	\$0.099	.....	.....	.....	.....	
Beef, corned, Baltimore, extra family.....	.520	.0745	.....	.....	.....	.....	.08	.06	.....	.....	.....	.....	
Beef, roasting (exclusive of flank, neck, shoulder, or round pieces).....	.720	.0745	.....	.....	.....	.....	.10	.067	.....	.....	.....	.....	
Beef-steak, prime cuts.....	.08	.0745	.....	.....	.....	.....	.10	.067	.....	.....	.....	.....	
Beef round, clear, no shin or flank.....	.03	.0745	.....	.....	.....	.....	.10	.067	.....	.....	.....	.....	
Beef-shins.....	.04	.0745	.....	.....	.....	.....	.05	.03	.....	.....	.....	.....	
Chickens, full-grown, killed and dressed.....	.16	.20	.....	.....	.....	.....	.18	.15	.....	.....	.....	.....	
Chickens, spring.....	.16	.20	.....	.....	.....	.....	.20	.25	.....	.....	.....	.....	
Fish, fresh.....	.06	.06	.....	.....	.....	.....	.07	.05	.....	.....	.....	.....	
Liver, fresh.....	.0409	.0745	.....	.....	.....	.....	.10	.06	.....	.....	.....	.....	
Mutton, prime, fore and hind quarters in equal number.....	.06	.0745	.....	.....	.....	.....	.10	.067	.....	.....	.....	.....	
Mutton-chops.....	.09	.0745	.....	.....	.....	.....	.30	.22	.....	.....	.....	.....	
Oysters, fresh and large.....	.24	.20	.....	.....	.....	.....	.10	.067	.....	.....	.....	.....	
Pork, salt.....	.0709	.0845	.....	.....	.....	.....	.10	.084	.....	.....	.....	.....	
Pork, fresh.....	.07	.0845	.....	.....	.....	.....	.10	.09	.....	.....	.....	.....	
Pork-sausage.....	.08	.0845	.....	.....	.....	.....	.10	.08	.....	.....	.....	.....	
Pork-steak.....	.08	.0845	.....	.....	.....	.....	.10	.09	.....	.....	.....	.....	
Turkey, killed and dressed.....	.14	.15	.....	.....	.....	.....	.18	.16	.....	.....	.....	.....	
Veal, hind quarter.....	.10	.0745	.....	.....	.....	.....	.10	.10	.....	.....	.....	.....	
CLASS II.													
Axle-grease.....	.....	.....	.96	.....	.....	.....	\$0.05	.....	.....	\$0.96	.....	.....	
Apples.....	.....	.....	3.00	.....	.....	.....	2.00	3.50	.....	3.50	.....	.....	
Apples, dried.....	.....	.....	.05	.....	.....	.....	.043	.05	.....	.03	.....	.....	
Beans, dried, medium, white.....	.....	.....	1.75	.....	.....	.....	2.00	2.00	.....	1.50	.....	.....	
Beer, lager.....	.....	.....	.65	.....	.....	.....	.55	.574	.....	.50	.....	.....	
Brooms, corn, No. 1, patent.....	.....	.....	3.50	.....	.....	.....	3.25	3.00	.....	2.25	.....	.....	
Buckets, water, oak, 3-hoop.....	.....	.....	2.00	.....	.....	.....	3.50	4.50	.....	1.50	.....	.....	
Bath-brick.....	.....	.....	.80	.....	.....	.....	.15	.25	.....	.13	.....	.....	
Brushes, stove.....	.....	.....	2.00	.....	.....	.....	1.10	1.50	.....	1.00	.....	.....	
Brushes, scrubbing.....	.....	.....	1.00	.....	.....	.....	1.25	1.00	.....	1.50	.....	.....	
Brushes, dust, long-handled.....	.....	.....	4.00	.....	.....	.....	5.70	6.00	.....	3.00	.....	.....	
Barley, pearl.....	.....	.....	.05	.....	.....	.....	.05	.....	.....	.08	.....	.....	

Proposals for supplying naval hospital at Norfolk, Va., for fiscal year 1888—Continued.

Articles.	CLASS II—Continued.							
	Courad Horst.	John A. Codd.	T. T. Parker.	W. G. Maupin.	Kate C. Brady.	I. Morris.	Thomas J. Barlow.	Charles R. Robertson.
								Niemeyer & Co.
								O. L. Williams.
								R. T. Miles.
								C. R. Nash.
Bluing, laundry, pint bottles.....			\$ 10	.....	.....	\$1.23	\$1.25	.....
Beans, string.....			per dozen	.....	.....	.80	.75	.....
Blacking, stove.....			per bushel	.....	.....	.15	.15	.....
Bets.....			per bushel	.....	.....	.80	.75	.....
Beets.....			per bushel	.....	.....	2.00	3.00	.....
Cranberries.....			do.	.....	.....	.98	2.25	.....
Carrots.....			per barrel	.....	.....	1.50	1.00	.....
Cabbage, large heads.....			per dozen	.....	.....	.97	1.10	.....
Corn, sweet ears.....			number	.....	.....	1.20	1.00	.....
Chocolate, Baker's.....			.40	.....	.....	.38	.45	.....
Corn-meal, yellow, bolted.....			per pound	.....	.....	1.00	1.20	.....
Coffee, prime Rio, whole, roasted.....			.20	.....	.....	.28	.28	.....
Corn, canned, 2-pound tins.....			per dozen	.....	.....	1.10	1.00	.....
Clothes-pins.....			per gross	.....	.....	.15	.15	.....
Candles, adamantine.....			per pound	.....	.....	.13	.13	.....
Crackers, water.....			per pound	.....	.....	.05	.07	.....
Farina.....			do.	.....	.....	.06	.08	.....
Flour, best quality.....			per barrel	.....	.....	6.00	5.60	.....
Fish, salt.....			per pound	.....	.....	.05	.05	.....
Greens.....			per bushel	.....	.....	.40	.40	.....
Gelatine, 2-ounce packages.....			per dozen	.....	.....	1.25	1.50	.....
Hominy.....			per pound	.....	.....	.03	.03	.....
Ham, prime, sugar-cured.....			do.	.....	.....	.14	.14	.....
Lard, prime, in tubs.....			per pound	.....	.....	.08	.09	.....
Lemon essence, 4-ounce bottles.....			per dozen	.....	.....	2.00	1.75	.....
Lemons.....			do.	.....	.....	.20	.25	.....
Lye, concentrated.....			do.	.....	.....	.80	.85	.....
Macaroni.....			per pound	.....	.....	.09	.10	.....
Mustard, Coleman's best.....			do.	.....	.....	.40	.45	.....
Molasses, New Orleans choice.....			per gallon	.....	.....	.40	.45	.....
Matches, safety.....			per gross	.....	.....	.70	.70	.....
Mackerel, No. 1.....			per barrel	.....	.....	10.75	10.00	.....
Onions.....			per bushel	.....	.....	1.25	1.25	.....
Oatmeal.....			per pound	.....	.....	.40	.35	.....
Oranges.....			per dozen	.....	.....	.30	.35	.....

Oil sperm.....	per gallon..	1.25	1.48	1.50	1.75	
Oil salad, 8-ounce bottles.....	per bottle..	.20	.19	.25	.45	
Oil, Pratt's astral.....	per gallon..	.15	.20	.18	3.50	
Parsnips.....	per bushel..	1.50	.78	.90	2.00	
Peas, green.....	do.....	1.20	.90	.90	1.80	
Potatoes, Irish, Early Rose.....	per barrel..	3.00	2.00	2.70	2.50	
Potatoes, sweet.....	do.....	1.75	2.00	1.75	1.50	
Peaches, canned, 2-pound tins.....	per dozen..	1.00	1.10	1.25	1.40	
Pepper, black, ground.....	per pound..	.20	.24	.30	1.30	
Peas, canned, 2-pound tins.....	per dozen..	1.10	1.38	1.40	1.25	
Pickles, mixed.....	per pound..	.08	.07	.07	1.10	
Powder, baking, Royal.....	do.....	.60	.40	.40	.16	
Powder, Persian insect.....	do.....	.50	.30	.50	.50	
Prunes.....	do.....	.08	.06	.07	.08	
Rice, choice.....	do.....	.07	.03½	.06	.06	
Raisins, layer.....	do.....	.14	.13	.12	.12	
Salt, table.....	do.....	.00½	.01	.00½	.01	
Salt, coarse.....	do.....	.25	.25	.30	.01	
Soap, laundry, Higgins's best.....	per bushel..	.06	.09½	.06	.25	
Soap, salt-water.....	per pound..	.15	.05	.10	.05	
Soap, toilet.....	do.....	.75	.20	.25	.05	
Soap, soft.....	per box.....	12.50	1.00	1.00	6.00	
Starch, corn.....	per barrel..	.07	.08	.08	.07	
Starch.....	per pound..	.85	.60	1.00	.50	
Sapollo.....	do.....	.04	.04½	.05	.04	
Spices, assorted.....	per pound..	.20	.20	.25	.25	
Sugar, white, standard block.....	do.....	.07½	.07½	.07½	.08	
Sugar, granulated, standard.....	do.....	.06½	.06½	.06½	.08½	
Sugar, yellow, light.....	do.....	.05	.04½	.05	.05	
Soda, washing.....	do.....	.00½	.02	.02	.01½	
Squash.....	do.....	1.50	.85	.80	2.00	
Tomatoes, fresh.....	do.....	1.00	.89	.90	2.00	
Turnips.....	per bushel..	1.75	1.50	1.50	1.50	
Tapoca.....	per barrel..	.08	.07	.08	.20	
Tea, Oolong, best.....	per pound..	.65	.35	.40	.45	
Tomatoes, 3-pound tins.....	do.....	1.00	1.15	1.00	1.20	
Vermicelli.....	per dozen..	.10	.09	.10	.20	
Vinegar, best cider.....	per pound..	.18	.10	.20	.22	
Vanilla essence, 4-ounce bottles.....	per gallon..	2.00	2.75	2.25	5.00	
Wax tapers, lighting.....	per box.....	.10	.05	.25	.40	
CLASS III.						
Butter, choice, new creamery.....	per pound..	\$0.32	.27½	.30	\$0.28	
Cheese, prime.....	do.....	.13	.09	.12	.14	
Eggs, fresh and large.....	per dozen..	.19	.20	.20	.24	
CLASS IV.						
Ice.....	per pound..		\$0.20½	.40	.50	\$0.23½

Proposals for supplying naval hospital at Norfolk, Va., for fiscal year 1888—Continued.

Articles.	Conrad Horst.	John A. Codd.	J. T. Parker.	W. G. Maupin.	Kate C. Brady.	L. Morris.	Thomas J. Barlow.	Charles R. Robertson.	Miemeyer & Co.	O. L. Williams.	R. T. Mules.	O. R. Nash.
CLASS V.												
Milk, pure.....per quart.....		\$0.02½			\$0.07		\$0.08	\$0.0795				
CLASS VI.												
Bread, fresh, 1-pound loaves.....per pound.....			\$0.05								\$0.04	
CLASS VII.												
Bran.....per pound.....						\$0.85			\$1.10	\$1.05		
Corn (horse-feed).....per bushel.....						.60	.90		.64	.65		
Corn-meal, unbolted, yellow.....per pound.....						.50	1.20		1.20	1.30		
Feed, fine.....do.....						.75	1.00		1.50	.85		
Hay, loose, best timothy.....do.....						.60	.90		.93½	.90		
Hay, baled, best timothy.....do.....						.60	.90		.97½	.45		
Oats, No. 1, white.....per bushel.....						.48	.45		.80	.50		
Straw, baled.....per pound.....						.25	.40		.50	.83		
Shorts.....per bushel.....						.40	.50		.60	.40		
Screenings.....do.....												

Class I, awarded to Charles R. Robertson; Classes II, III, and VII, awarded to L. Morris; Class IV, awarded to W. G. Maupin; Class V, awarded to Kate C. Brady; Class VI, awarded to Thomas J. Barlow.

Proposals for supplying naval hospital at Pensacola, Fla., for fiscal year 1888.

Articles.	Fred. Bauer.	B. A. Philibert.	Benj. Dolphin.	T. J. Mooney.	Chas. E. Baker.
CLASS I.					
Bacon, sides, sugar-cured..... per pound..	\$0.12	\$0.10	\$0.10	\$0.10 $\frac{1}{2}$	\$0.12 $\frac{1}{2}$
Beef, corned, Baltimore, extra family..... do..	.09	.10	.10	.10	.11
Beef, roasting (exclusive of flank, neck, shoulder, or round pieces)..... per pound..	.13	.13	.12 $\frac{3}{4}$	.13 $\frac{1}{2}$	.16
Beefsteak, prime cuts..... do..	.13	.13	.12 $\frac{3}{4}$	.14	.16
Beef, round, clear, no skin or flank..... do..	.13	.13	.12 $\frac{3}{4}$	.14	.12 $\frac{1}{2}$
Beef shins..... do..	.07	.05	.04	.05	.15
Chickens, full-grown, killed and dressed..... do..	.20	.15	.12 $\frac{1}{2}$	.15	.12
Chickens, spring..... do..	.20	.15	.08	.12 $\frac{1}{2}$	.12
Fish, fresh..... do..	.07	.04	.04	.04	.05
Liver, fresh..... do..	.13	.10	.10	.13 $\frac{1}{2}$	.15
Mutton, prime, fore and hind quarters in equal number. do..	.15	.13	.15	.14	.16
Mutton-chops..... do..	.15	.13	.15	.15	.16
Oysters, fresh and large..... per quart..	.40	.30	.50	.55	.25
Pork, salt..... per pound..	.10	.10	.10	.10	.08
Pork sausage..... do..	.18	.15	.17	.17	.18
Turkey, killed and dressed..... do..	.20	.15	.20	.19	.12 $\frac{1}{2}$
Veal, hind quarter..... do..	.15	.13	.12 $\frac{1}{2}$	.14	.16
CLASS II.					
Axle-grease..... per box.....	.10	.08		.10	.08
Apples..... per barrel.....	4.50	2.00		2.50	2.50
Apples, dried..... per pound.....	.12	.08		.09	.08
Beans, dried, mediums, white..... per bushel.....	2.75	2.25		2.50	2.40
Beer, lager..... per dozen.....	1.35	1.00		1.00	1.25
Brooms, corn, No. 1, patent..... do..	3.25	3.00		3.50	4.80
Buckets, water, oak, 3-hoop..... do..	2.75	2.75		2.00	5.50
Bath-brick..... do..	1.00	.60		.75	.75
Brushes, stove..... do..	2.50	1.75		2.20	1.75
Brushes, scrubbing..... do..	2.50	1.75		2.00	1.90
Brushes, dust, long-handled..... do..	.50	1.75		2.50	6.00
Barley, pearl..... per pound.....	.08	.05		.05	.05
Bluing, laundry, pint bottles..... per dozen.....	1.50	1.00		1.50	.75
Beans, string..... per bushel.....	1.50	1.50		1.00	.75
Blacking, stove..... per pound.....	.15	.10		.40	.10
Beets..... per bushel.....	1.75	1.40		1.40	1.40
Cranberries..... do..	2.75	3.25		2.00	1.80
Carrots..... per barrel.....	3.00	3.00		2.00	2.00
Cabbage, large heads..... per dozen.....	2.40	2.00		2.40	2.00
Corn, sweet, ears..... per 100.....	3.00	1.00		2.50	2.00
Chocolate, Baker's..... per pound.....	.30	.30		.35	.30
Corn-meal, yellow, bolted..... per 100 pounds.....	1.60	1.70		1.70	1.00
Coffee, prime, Rio, whole, roasted..... per pound.....	.27	.25		.17	.25
Corn, canned, 2-pound tins..... per dozen.....	1.60	1.80		1.80	1.80
Clothes-pins..... per gross.....	.50	.50		1.00	.50
Candles, adamantine..... per pound.....	.13	.15		.17	.20
Crackers, water..... do..	.07	.08		.10	.05
Farina..... do..	.10	.08		.05	.05
Flour, best quality..... per barrel.....	5.75	5.75		6.00	5.00
Fish, salt..... per pound.....	.06	.08		.06	.05
Greens..... per bushel.....	.50	.50		.60	.20
Gelatine, 2-ounce packages..... per dozen.....	2.00	.00		1.00	.10
Hominy..... per pound.....	.03	.02		.03 $\frac{1}{2}$	.04
Ham, prime, sugar-cured..... do..	.13	.14		.14	.15
Lard, prime, in tubs..... do..	.09	.10		.09	.08
Lemon essence, 4-ounce bottles..... per dozen.....	1.60	1.75		2.00	.75
Lemons..... do..	.35	.25		.30	.25
Lye, concentrated..... do..	1.00	1.00		1.20	1.00
Macaroni..... per pound.....	.12	.15		.15	.05
Mustard, Coleman's best..... do..	.50	.40		.40	.35
Molasses, N. O. choice..... per gallon.....	.50	.50		.55	.60
Matches, safety..... per gross.....	1.10	1.20		1.10	.90
Mackerel, No. 1..... per barrel.....	9.00	6.00		2.00	4.00
Onions..... per bushel.....	1.80	1.50		1.60	1.50
Oatmeal..... per pound.....	6.00	5.00		4.50	4.00
Oranges..... per dozen.....	.35	.40		.40	.30
Oil, sperm..... per gallon.....	1.25	.70		.75	.60
Oil, salad, 8-ounce bottles..... per bottle.....	.30	.30		.35	.30
Oil, Pratt's Astral..... per gallon.....	.25	.30		.40	.20
Parsnips..... per bushel.....	1.25	.85		.50	1.00
Peas, green..... do..	1.50	.50		.80	1.00

Proposals for supplying naval hospital at Pensacola, Fla., etc.—Continued.

Articles.	Fred. Baner.	B. A. Philibert.	Benj. Dolphin.	T. J. Mooney.	Chas. E. Baker.
CLASS II—Continued.					
Potatoes, Irish, Early Rose..... per barrel..	\$2. 75	\$2. 75	.....	\$2. 50	\$3. 00
Potatoes, sweet..... do.....	1. 80	2. 00	.....	2. 00	2. 50
Peaches, canned, two-pound tins..... per dozen..	1. 75	1. 80	.....	1. 75	2. 00
Pepper, black, ground..... per pound.....	. 30	. 30	.....	. 25	. 25
Peas, canned, two-pound tins..... per dozen..	1. 75	1. 80	.....	1. 95	2. 00
Pickles, mixed..... per pound.....	. 10	. 06	.....	. 05	. 08
Powder, baking, Royal..... do.....	. 50	. 40	.....	. 20	. 19
Powder, Persian insect..... do.....	. 50	. 50	.....	. 25	. 35
Prunes..... do.....	. 15	. 15	.....	. 10	. 15
Rice, choice..... do.....	. 06	. 07	.....	. 07	. 05½
Raisins, layer..... do.....	. 17	. 13	.....	. 20	. 18
Salt, table..... per 100 pounds..	1. 90	2. 00	.....	2. 50	3. 00
Salt, coarse..... per bushel..	. 60	. 70	.....	. 55	. 50
Soap, laundry, Higgins's best..... per pound.....	. 06	. 05	.....	. 05	. 05
Soap, salt-water..... do.....	. 06	. 05	.....	. 06	. 04
Soap, toilet..... per box.....	. 50	. 25	.....	. 10	. 15
Soap, soft..... per barrel.....	3. 00	1. 00	.....	. 90	1. 80
Starch, corn..... per pound.....	. 09	. 12	.....	. 15	. 10
Sapolo..... per dozen.....	1. 00	1. 00	.....	1. 00	. 85
Starch, laundry..... per pound.....	. 05	. 05	.....	. 06	. 03½
Spices, assorted..... do.....	. 25	. 25	.....	. 30	. 35
Sugar, white, standard block..... do.....	. 09	. 10	.....	. 10	. 10
Sugar, granulated, standard..... do.....	. 07½	. 09	.....	. 09	. 08
Sugar, yellow, light..... do.....	. 06½	. 09	.....	. 08	. 07½
Soda, washing..... do.....	. 07	. 04	.....	. 05	. 04
Squash..... do.....	3. 50	. 50	.....	1. 00	2. 00
Tomatoes, fresh..... per bushel..	2. 50	1. 50	.....	. 50	1. 25
Turnips..... per barrel.....	2. 50	2. 00	.....	2. 90	2. 00
Tapioca..... per pound.....	. 07	. 10	.....	. 10	. 06
Tea, Oolong, best..... do.....	. 60	. 50	.....	. 50	. 75
Tomatoes, three-pound tins..... per dozen.....	1. 50	1. 80	.....	1. 10	1. 75
Vermicelli..... per pound.....	. 12	. 15	.....	. 15	. 15
Vinegar, best cider..... per gallon..	. 30	. 30	.....	. 35	. 50
Vanilla, essence, 4-ounce bottles..... per dozen.....	1. 75	2. 40	.....	1. 75	2. 50
Wax tapers, lighting..... per box.....	.....	. 25	.....	. 15	. 05
CLASS III.					
Butter, choice, new creamery..... per pound..	. 30	. 32	\$0. 30	. 30	. 40
Cheese, prime..... do.....	. 18	. 15	. 15	. 15	. 20
Eggs, fresh and large..... per dozen.....	. 26	. 25	. 25	. 25	. 30
CLASS IV.					
Ice..... per 100 pounds.....	.....	1. 00	1. 00	1. 00	. 90
CLASS V.					
Milk, pure..... per quart.....	. 14	. 13½	. 13½	. 15	. 15
CLASS VI.					
Bread, fresh, 1-pound loaves..... per pound.....	.....	. 05	. 05	. 05	. 06½
CLASS VII.					
Bran..... per 100 pounds..	1. 15	1. 20	1. 15	1. 20	. 85
Corn (horse-feed)..... per bushel..	. 70	. 75	. 70	. 70	. 70
Hay, baled, best timothy..... per 100 pounds..	1. 10	1. 20	1. 18	1. 20	1. 20
Oats, No. 1, white..... per bushel..	. 50	. 55	. 54	. 55	. 53
Straw, baled..... per 100 pounds..	1. 20	1. 00	1. 00	1. 00	. 90

Classes I and V awarded to Benjamin Dolphin. Classes II, III, and VI awarded to T. J. Mooney. Classes IV and VII awarded to Charles E. Baker.

Proposals for supplying the naval hospital at Mare Island, Cal., for fiscal year 1888.

Articles.	M. L. Kelly.	John Brownlie.	J. F. Tobin.	G. W. Wilson.
CLASS I.				
Bacon, sides, sugar-cured.....per pound.....	\$0.13	\$0.13 $\frac{1}{2}$	\$0.13	.....
Beef, corned, Baltimore extra family.....do.....	.10	.10	.09	.....
Beef, roasting (exclusive of flank, neck, shoulder, or round pieces).....per pound.....	.12	.12 $\frac{1}{2}$	.11	.....
Beef-steak, prime cuts.....do.....	.14	.13	.11	.....
Beef, round, clear, no shin or flank.....do.....	.10 $\frac{1}{2}$	.11	.10	.....
Beef-shins.....do.....	.09	.10	.08	.....
Chickens, full grown, killed and dressed.....do.....	.19	.18 $\frac{1}{2}$	.18	.....
Chickens, spring.....do.....	.25 $\frac{1}{2}$	.26	.25	.....
Fish, fresh.....do.....	.10 $\frac{1}{2}$	.11	.10	.....
Liver, fresh.....do.....	.10	.09	.08	.....
Mutton, prime, fore and hind quarters in equal number, per pound.....	.12	.13	.09	.....
Mutton-chops.....per pound.....	.12 $\frac{1}{2}$	.13	.12	.....
Oysters, fresh and large.....per solid quart.....	.80	.80	.75	.....
Pork, salt.....per pound.....	.09 $\frac{1}{2}$	.10	.09	.....
Pork, fresh.....do.....	.13	.12	.10	.....
Pork-sausage.....do.....	.14	.15	.10	.....
Pork-steak.....do.....	.12 $\frac{1}{2}$	.13	.12	.....
Turkey, killed and dressed.....do.....	.25	.23	.20	.....
Veal, hind quarter.....do.....	.12	.11	.10	.....
CLASS II.				
Axle-grease.....per box.....	.20	.18	.16	.....
Apples.....per barrel.....	2.25	2.50	2.00	.....
Apples, dried.....per pound.....	.11	.11	.10	.....
Beans, dried, mediums, white.....per bushel.....	1.40	1.50	1.25	.....
Beer, lager.....per dozen.....	2.15	2.10	2.00	.....
Brooms, corn, No. 1, patent.....do.....	5.00	4.75	4.50	.....
Buckets, water, oak, 3-hoop.....do.....	5.75	6.00	5.50	.....
Bath-brick.....do.....	1.40	1.37 $\frac{1}{2}$	1.25	.....
Brushes, stove.....do.....	4.50	4.25	4.00	.....
Brushes, scrubbing.....do.....	4.50	4.25	4.00	.....
Brushes, dust, long-handled.....do.....	7.75	8.00	7.50	.....
Barley, pearl.....per pound.....	.05	.05 $\frac{1}{2}$	.05	.....
Bluing, laundry, pint bottles.....per dozen.....	3.00	2.75	2.50	.....
Beans, string.....per pound.....	.07	.08	.06	.....
Blacking, stove.....do.....	.40	.35	.30	.....
Beets.....do.....	.02 $\frac{1}{2}$	.03	.02 $\frac{1}{2}$	.....
Cranberries.....per gallon.....	.75	.80	.75	.....
Carrots.....per pound.....	.02 $\frac{1}{2}$	.03	.02 $\frac{1}{2}$	.....
Cabbage, large heads.....per dozen.....	1.10	1.00	.90	.....
Corn, sweet-ears.....number.....	2.15	2.25	2.00	.....
Chocolate, Baker's.....per pound.....	.35	.33	.30	.....
Corn-meal, yellow, bolted.....per 100 pounds.....	3.15	3.10	3.00	.....
Coffee, prime Rio, whole, roasted.....per pound.....	.33	.35	.30	.....
Corn, canned, 2-pound tins.....per dozen.....	1.80	1.80	1.75	.....
Clothes-pins.....per gross.....	.50	.50	.50	.....
Candles, adamantine.....per pound.....	.15 $\frac{1}{2}$	.15 $\frac{1}{2}$	.15	.....
Crackers, water.....do.....	.10	.09 $\frac{1}{2}$	.09	.....
Farina.....do.....	.06 $\frac{1}{2}$	.07	.06 $\frac{1}{2}$	.....
Flour, best quality.....do.....	.03 $\frac{1}{2}$	.03 $\frac{1}{2}$	.03	.....
Fish, salt.....do.....	.07 $\frac{1}{2}$	.08	.07	.....
Greens.....per bushel.....	1.15	1.25	1.00	.....
Gelatine, 2-ounce packages.....per dozen.....	1.95	1.80	1.75	.....
Hominy.....per pound.....	.05	.04 $\frac{1}{2}$	.04	.....
Hams, prime, sugar-cured.....do.....	.10 $\frac{1}{2}$	.10 $\frac{1}{2}$	.16	.....
Lard, prime, in tubs.....do.....	.10 $\frac{1}{2}$	.10 $\frac{1}{2}$	.10	.....
Lemon essence, 4-ounce bottles.....per dozen.....	2.25	2.50	2.00	.....
Lemons.....do.....	.40	.35	.30	.....
Lye, concentrated.....do.....	1.00	1.12 $\frac{1}{2}$	1.00	.....
Macaroni.....per pound.....	.10 $\frac{1}{2}$	.11	.10	.....
Mustard, Coleman's best.....do.....	.62	.63	.60	.....
Molasses, New Orleans, choice.....per gallon.....	1.00	.80	.75	.....
Matches, safety.....per gross.....	2.10	2.15	2.00	.....
Mackerel, No. 1.....per barrel.....	10.00	9.75	9.50	.....
Onions.....per pound.....	.03 $\frac{1}{2}$	.04	.03 $\frac{1}{2}$	.....
Oatmeal.....per 100 pounds.....	4.50	4.35	4.25	.....
Oranges.....per dozen.....	.50	.45	.40	.....
Oil, sperm.....per gallon.....	2.25	2.10	2.00	.....
Oil, salad, 8-ounce bottles.....per bottle.....	.65	.68	.60	.....
Oil, Pratt's astral.....per gallon.....	.31	.31 $\frac{1}{2}$	.30	.....
Parsnips.....per pound.....	.03	.02 $\frac{1}{2}$	.02 $\frac{1}{2}$	.....
Peas, green.....do.....	.06 $\frac{1}{2}$	.07	.06	.....

Proposals for supplying the naval hospital at Mare Island, Cal., etc.—Continued.

Articles.	M. L. Kelly.	John Brownlie.	J. F. Tobin.	G. W. Wilson.
Potatoes, Irish, Early Rose per pound..	\$0.02 $\frac{1}{2}$	\$0.02 $\frac{1}{2}$	\$0.02 $\frac{1}{2}$	.....
Potatoes, sweet, ... do..	.03	.03	.03	.....
Peaches, canned, 2-pound tins per dozen..	2.50	2.10	2.00	.....
Pepper, black, ground per pound..	.24	.25	.20	.....
Peas, canned, 2-pound tins per dozen..	1.65	1.75	1.60	.....
Pickles, mixed per pound..	.09 $\frac{1}{2}$	.10	.09	.....
Powder, baking, Royal do..	.50	.50	.50	.....
Powder, Persian insect do..	1.15	1.12 $\frac{1}{2}$	1.00	.....
Prunes do..	.12	.11 $\frac{1}{2}$	.11	.....
Rice, choice do..	.07	.06 $\frac{1}{2}$	.06	.....
Raisins, layer do..	.14	.13	.12 $\frac{1}{2}$	.....
Salt, table do..	.01	.01	.01	.....
Salt, coarse per bushel..	.42	.45	.40	.....
Soap, laundry, Higgins's best per pound..	.09 $\frac{1}{2}$	.09 $\frac{1}{2}$	.09	.....
Soap, salt-water do..	.09 $\frac{1}{2}$	.09 $\frac{1}{2}$	.09	.....
Soap, toilet per box..	1.60	1.75	1.50	.....
Soap, soft per barrel..	4.50	4.25	4.00	.....
Starch, corn per pound..	.09 $\frac{1}{2}$	.10	.09	.....
Sapallo per dozen..	1.75	1.60	1.56	.....
Starch, laundry per pound..	.09 $\frac{1}{2}$	.10	.09	.....
Spices, assorted do..	.27 $\frac{1}{2}$	.26	.25	.....
Sugar, white, standard block do..	.09	.08 $\frac{1}{2}$	.08 $\frac{1}{2}$	.....
Sugar, granulated, standard do..	.07 $\frac{1}{2}$	.07 $\frac{1}{2}$	.07	.....
Sugar, yellow, light do..	.07	.06 $\frac{1}{2}$	.06 $\frac{1}{2}$	.....
Soda, washing do..	.01 $\frac{1}{2}$	.01 $\frac{1}{2}$	.01 $\frac{1}{2}$	.....
Squash per 100 pounds..	3.40	3.25	3.00	.....
Tomatoes, fresh per pound..	.08 $\frac{1}{2}$	.08 $\frac{1}{2}$	.08	.....
Turnips do..	.03	.02 $\frac{1}{2}$	.02 $\frac{1}{2}$	.....
Tapioca do..	.08 $\frac{1}{2}$	.08 $\frac{1}{2}$	.08	.....
Tea, Oolong, best do..	.46	.50	.45	.....
Tomatoes, 3-pound tins per dozen..	1.75	1.60	1.50	.....
Vermicelli per pound..	.11	.10 $\frac{1}{2}$	.10	.....
Vinegar, best cider per gallon..	.28	.30	.25	.....
Vanilla essence, 4-ounce bottles per dozen..	3.00	2.75	2.50	.....
Wax-tapers, lighting per box..	.28	.30	.25	.....
CLASS III.				
Butter, choice, new creamery per pound..	.38	.40	.35	.....
Cheese, prime do..	.25	.22	.20	.....
Eggs, fresh and large per dozen..	.38	.37 $\frac{1}{2}$	.35	.....
CLASS IV.				
Ice per 100 pounds..	3.25	3.50	3.00	.....
CLASS V.				
Milk, pure per quart..	.09	.10	.08	.....
CLASS VI.				
Bread, fresh, 1-pound loaves per pound..	.05 $\frac{1}{2}$	.05 $\frac{1}{2}$	.05	.....
CLASS VII.				
Bran per 100 pounds..	1.35	1.30	1.25	.....
Corn (horse-feed) per bushel..	1.30	1.30	1.25	.....
Corn-meal, unbolted, yellow per 100 pounds..	2.15	2.10	2.00	.....
Feed, fine do..	2.15	2.25	2.00	.....
Hay, loose, best timothy do..	.85	.80	.75	.....
Hay, baled, best timothy do..	1.15	1.25	1.00	.....
Oats, No. 1, white do..	2.25	.02 $\frac{1}{2}$	2.25	.....
Straw, baled do..	.65	.55	.50	.....
Shorts per bushel..	.74	.75	.70	.....
Screenings do..	.60	.75	.50	.....
CLASS VIII.				
Gas per 1,000 feet..	.....	.....	.....	\$3.00
CLASS IX.				
Water per 100 gallons..	.....	.....	.....	.05

Classes I, II, III, IV, V, VI, VII awarded to J. F. Tobin. Classes VIII, IX awarded to G. W. Wilson.

Proposals for supplying the dispensary at Mare Island for fiscal year 1888.

Articles.	M. L. Kelly.	James Brownlie.	J. T. Tobin.
CLASS VII.			
Bran per 100 pounds..	\$1.35	\$1.30	\$1.25
Corn ((horse-feed) do....	1.30	1.30	1.25
Corn-meal, unbolted, yellow.....do....	2.15	2.10	2.00
Feed, fine do....	2.15	2.25	2.00
Hay, loose, best timothy do....	.85	.80	.75
Hay, baled, best timothy.....do....	1.15	1.25	1.00
Oats, No. 1, white per pound..	.02 $\frac{1}{2}$	.02 $\frac{3}{4}$	2.25
Straw, baled per 100 pounds..	.65	.55	.50
Shorts.....per bushel..	.74	.75	.70
Screenings.....do....	.60	.75	.50

Class VII awarded to J. T. Tobin.

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EXTRACTS FROM THE REPORT ON U. S. S. PINTA.

By Passed Assistant Surgeon C. W. RUSH, U. S. Navy.

The inhabitants of Sitka are chiefly Russians and Indians, there being but few Americans. The number of Indians varies with the season, as during the summer most of them are absent hunting or fishing for their winter supply of food. They return to Sitka usually about November 1, but the increasing attractions of Juneau, with its dance-houses and theater, have materially reduced the population of the ranch. At present there are about five hundred, while during the last winter there were between twelve and fifteen hundred. Phthisis and the various forms of scrofula are rapidly diminishing their number. In spite of the influences of civilization they adhere so strongly to their old customs that any attempts at medical treatment from the whites, if not refused, are submitted to with reluctance, and as a result, particularly in the case of children, the mortality is very high.

During the past winter erysipelas has prevailed to an alarming extent throughout the ranch and many deaths have occurred from its cause.

Bronchitis and catarrhal pneumonia among the children are common, and in many cases are fatal because of neglect and the lack of proper treatment. Rheumatism in a subacute or chronic form is common among the males, and the peculiar deformities resulting therefrom are especially noticeable among the Sitka tribe. While on the summer cruise all Indians who applied for treatment were furnished with medicines by permission of the commanding officer. At Chilcat and a small village at the head of Taiya Inlet many cases of purulent ophthalmia in children were presented for treatment. Those who came regularly and followed directions faithfully were soon relieved, but the majority made but one visit to the ship. This disease I believe to be a prominent cause of blindness, which is by no means uncommon among the Indians, both adult and children. As a rule the Indians from the northward and the interior are far superior physically to those of Sitka. They are taller, more robust and muscular, and present fewer evidences of chronic disease, but syphilis is everywhere present.

When we consider the exposure to which they are subjected, and the primitive attempts at either relief or cure of disease, it is not surprising that the mortality among these Indians is so great. The primary results of civilization among such a people are never encouraging. The white man's vices are far more attractive to the Siwash than his virtues, and time alone can bring about the avoidance of the former and the adoption of the latter. When we think of the Siwash "doctor," with his hideous masks and his doleful incantations, it is not strange that impressions such as they must have produced are not easily removed; and we can hardly expect the average Indian to have much faith in the white man's treatment. The position of "medicine man" was so lucrative, and at the same time commanded so much respect from the Indians, that attempts to abolish his practices have met with great opposition, both by the "doctor" himself and those of the tribe who were impressed with his wonderful abilities. But the prompt arrest and punishment of the offenders has made the distinction an undesirable one, and it is only in places that are rarely visited by the whites that a "Siwash doctor" can now be found.

Their treatment of young girls is, perhaps, as fair an illustration as can be found of their brutality and cruelty. Upon the appearance of the menses the girl was taken and confined at some distance from the camp, in a small hut or tent, only large enough to admit her in the most cramped position. Here she was kept, for a period varying from a few months to a year, entirely shut off from every one, her food being passed into the hut, and she was regarded by all the tribe as unclean and unfit to associate with them. While on the cruise several of these unfortunates were discovered and released by the commanding officer, and speedy punishment promised for a repetition of the offense.

MINERAL SPRINGS.

Southeastern Alaska is noted for its mineral springs, and there is scarcely an island but has one or more. On Baranoff Island there are four, the most important of which is situated on the western shore, about 18 miles south from Sitka. These springs, both hot and cold, are strongly impregnated with sulphur, iron, or magnesia, and some contain various proportions of each. During the Russian occupation of the country a hospital under the charge of the army was located at this place, and not only were soldiers treated there, but citizens were allowed free use of the waters. The medical officer stationed at Sitka made semi-weekly trips to the springs, and it is said that in most cases no medicine other than the waters was used. People from all parts of the Territory went there for treatment, and wonderful cures are related by men whose word is beyond question. The place is still resorted to by patients afflicted with rheumatism and venereal disease, and, from my own observation, I am forced to believe that benefit results from the use of these waters.

An enterprising trader has erected several houses at the place and charges visitors at the rate of \$1 per day for the use of bath-tubs which he has built. During the summer there are always from six to a dozen patients there, and in the majority of cases they return greatly improved if not wholly cured.

It would be interesting to know whether or not cases originating under my own observation would be equally benefited, and if the permission of the Department to send patients there could be obtained sufficient data might be accumulated to form an opinion as to their curative value.

REPORT ON EXPEDITION TO NORTHERN ALASKA.

By Passed Assistant Surgeon F. S. NASH, U. S. Navy.

On the 25th of April, 1885, the *Explorer* was commissioned at Mare Island, California, where the Northern Alaska Exploring Expedition remained until the 28th of April, when the *Viking*, a schooner chartered to carry the party to Kotzebue Sound, Alaska, dropped down to San Francisco, from which place she sailed on May 3 for Ounalaska, one of the Aleutian Islands. She arrived at Ounalaska on June 6 and remained there until the 9th, when she got under way for the island of Bogoslod, a volcanic rock in Behring Sea, which she reached on June 11, leaving the same day for the north. On the 27th of June she came to anchor off St. Michaels, Alaska, where she was detained until the 1st of July for the purpose of obtaining dogs, skin boats, dog drivers, and an interpreter. She arrived in St. Lawrence Bay, Siberia, on July 5, and after a stay of only a few hours got under way for Kotzebue Sound, Alaska, where she let go her anchor on the 9th of July. The party immediately proceeded into the interior of northern Alaska, and remained ashore until August 25, 1886, when Capt. M. A. Healy, commanding the United States revenue steamer *Bear*, took the party on board, and on the 26th sailed for the south, stopping a few hours at Port Clarence on the 27th, and arriving at St. Michaels on the 28th of August, where the *Bear* remained until the 4th of September, when she sailed for Plover Bay, Siberia, from which port she proceeded, after a stay of eighteen hours, on the 7th of September, to the Pribylov Islands, where she arrived on the 10th. From this time until the 10th of October she cruised in Behring Sea, repeatedly visiting St. Paul, St. George, and Ounalaska Islands. These are three of the most important stations of the Alaska Commercial Company.

On the 10th of October she sailed from Ounalaska for San Francisco, Cal., where she arrived on the 21st and proceeded to Mare Island navy-yard on the 25th, where, on November 8, 1886, the expedition closed its official existence.

The quarters of both officers and men on the *Viking* were fairly good, being somewhat limited in space, but dry and easily ventilated. While in Alaska, the party in summer lived principally in half-walled tents, and in the winter, from September 26, 1885, to June 14, 1886, found comfortable shelter in its headquarters, Fort Cosmos, situated in latitude $66^{\circ} 52' 51''$ N., longitude $157^{\circ} 11'$ W.

A sandy cliff on the banks of the Putnam was selected as a proper site for the building. After excavating several feet, mortised posts were sunk and logs with their sides smoothed by the saw mill, having their ends tongued, were placed horizontally, the tongue resting in the mortice of the upright post and a thin layer of moss placed between them. The house was covered with pine boards, over which was put a thick layer of long grass and several inches of sand thrown on this. The loose sand from the excavation was thrown against the outside of the house. The quarters were thus made as snug as a hole in the ground. With the exception of a few green logs the house was built with seasoned pine timber gotten from the neighboring woods.

The flooring consisted of pine planking, covered with bear robes, resting on sills, and the space between the sills was filled in with grass to increase the warmth of the rooms. The quarters were lined with canvas, and felting was used between the outside bunks and walls. In the men's quarters each section had two bunks after the manner of the Pullman cars, but the sections of the officers' quarters had only one. On coming into the house through the outside door, a hall was entered into which opened three other doors leading respectively to the quarters of officers and men, and to the galley. The partitions between the quarters being composed of roughly hewn pine poles, larger below than above, and only covered with canvas to the height of 6 feet, gave a free circulation of air above. Although the dimensions of the men's and officers' quarters were the same, there being ten bunks in the former and only five in the latter, the air space was slightly different.

Depth of officers' quarters, $27\frac{1}{2}$ feet; breadth, 13 feet; height, taken in middle of room, $7\frac{1}{2}$ feet.

These were lighted by two windows each, 2 by $2\frac{1}{2}$ feet, and opened into the hall by a door 6 by $2\frac{1}{2}$ feet.

The same measurements and remarks apply to the men's quarters.

Depth of hall, $17\frac{1}{2}$ feet; breadth, $10\frac{1}{2}$ feet; height, 10 feet.

Opening into the hall from the external air, was a door 3 by 6 feet.

Depth of galley, $9\frac{1}{2}$ feet; breadth, $10\frac{1}{2}$ feet; height, 10 feet.

The galley contained a cooking stove and utensils, and a bunk for the cook. It communicated with the store-room by a door 6 by $2\frac{1}{2}$ feet. Above this door there was an opened space $25\frac{5}{6}$ by $2\frac{5}{2}$ feet. It also communicated with the hall by a door 6 by $2\frac{1}{2}$ feet, and an opened space above the door $2\frac{1}{2}$ feet by $2\frac{1}{2}$ feet.

One-third of the building posteriorly was used as a store-room, chiefly for provisions and clothing.

Two benches, one for the machinist and one for the carpenter, and a barrel holding 200 gallons of warm water were placed in the hall, which was also used as a drying room.

After deducting for space occupied by joist poles, beams, bunks, and barrel there remain 7882-cubic feet of air space, since the air in the galley and hall freely communicated with that of the sleeping apartments. This divided by 16, the number of persons using it, would give 492 cubic feet to each man. Ventilation was effected by unavoidable cracks around the eaves from the store-room, by the door and by an annular space around the smoke pipe, offering a superficies of 141 square inches and the strong current of air through the stoves. The outside door was kept opened, except on inclement days, from 8.45 a. m. to 5 p. m., and was opened again for 15 minutes after all hands had turned in at 10 p. m. to get out the tobacco smoke.

Heating was accomplished by the combustion of pine wood in two plain iron stoves and in the galley. A temperature of 40° to 50° F. was tried, but found to be too low for comfort, so it was kept between 50° and 60° F., and this was found to be pleasant and agreeable.

Light was furnished by the windows mentioned above and at night by argand lamps burning kerosene.

The food consisted of the usual navy ration supplemented by a quantity of preserved meats and vegetables from the stores purchased originally for the Greely Relief Expedition. During the winter every effort was made to obtain fresh food in the form of game and fish, and a sufficient quantity was usually obtained for two meals a week. In the spring a large supply of deer meat and birds, principally geese and ducks, was procured.

From November 1, 1885, to May 1, 1886, lime juice was daily issued and taken in the presence of an officer, each individual getting an ounce of lime juice in 2 ounces of water, with the addition of one-half of an ounce of sugar. In order to make the lime juice more acceptable, the commanding officer put some alcohol in it for part of the crew who wished it. Three of the officers took lime juice without alcohol and two with alcohol in it. Three of the men preferred it without the alcohol but the remainder wished it. The lime juice was of good quality and was put up by Parke Davis & Co. The following is the statement given to the surgeon as to the effects of lime juice and lime juice and alcohol, respectively, on the different members of the expedition.

Lieutenant STONEY.—It always nauseated.

Passed Assistant Engineer ZANE.—It nauseated towards the last, but previously did not affect.

Passed Assistant Surgeon NASH.—It produced a feeling of dullness, slight headache, debility, some pain in abdomen, nausea, in some instances so great as to cause vomiting, was laxative, and stimulated the kidneys.

NIPLAND.—It produced headache, debility, drowsiness, nausea, and stimulated his kidneys.

McSHANE.—It caused pain in abdomen, was slightly laxative, and diminished his appetite.

O'LEARY.—It caused pain in abdomen, and was slightly laxative.

The following took alcohol and lime juice:

Ensign READ.—It nauseated to such an extent that on the 2d of January, 1886, it had to be discontinued.

Ensign HOWARD.—It increased his appetite, and made him sleepy.

ROHDE.—It nauseated when taken just before meals, and stupid after his meal.

DEVINE.—It did not affect, other than making him sleepy after his meal.

READY.—It improved his appetite, and was laxative.

NYMAN.—It improved his appetite.

POWERS.—It improved his appetite.

SOKOLOFF.—It produced slight pain in his abdomen towards the last.

The lime juice was taken just before dinner. The effects of the lime juice on those who took alcohol in it seems to have been overshadowed by the stimulating action of the alcohol. I do not think that any scurvy would have prevailed if not a drop of lime juice had been taken, and I believe that as good antiscorbutic results can be more pleasantly obtained by subsequent parties going into the North taking a ration of weak domestic wines and malt liquors.

When actually under way the party subsisted almost entirely on hard-tack, slap-jacks (yeast-powder, lard, flour, and water), tea, and salt pork.

The water used by the expedition was from the Putnam River and was found to be excellent.

When the galley was purchased in San Francisco, some iron tubing was fitted into the furnace and this led into a large barrel holding 100 gallons of water, which was refilled night and morning from the Putnam, and gave us a large supply of warm water constantly on hand to be used in washing and in case of fire.

The clothing consisted of heavy red-flannels, blue overshirts, woolen socks, leather boots, heavy woolen trousers and pea-jackets for summer. In the winter arteeags, a loose shirt of doubled reindeer skin, protecting the head, face, and body, extending nearly to the knees, and reindeer trousers were worn over the summer clothing. For keeping the feet at a proper temperature, a thick sock of reindeer skin was worn over the woolen sock, and the native seal-skin boot substituted for the leather covering. The skin clothing was only used out of doors. Sledging parties carried sleeping bags and an extra pair of socks. The mit, with only the thumb separated from the remainder of the hand, was found to be most useful for general work under exposure to continued low temperatures. In the spring goggles of colored glass were worn, and no snow blindness resulted from the glare. As a protection from mosquitoes, masks were used. These were made of thick cotton cloth, supported on the head by a frame-work, and the front covered with wire gauze, having openings for the mouth and eyes, which were protected by a lid. These were found to be very efficient, but too warm, and the odor of the brass wire was disagreeable.

The following recommendations were made on the beginning of winter :

HEADQUARTERS NORTHERN ALASKA EXPLORING EXPEDITION, FORT COSMOS, November 30, 1885.

SIR: On entering the winter, I have the honor to make the following recommendations as relating to the hygiene which should be maintained at Fort Cosmos, the headquarters of the expedition under your command. Most of them are taken from "Sanitary Suggestions," by Dr. Kidder, of the Smithsonian Institute, formerly a surgeon in the Navy, and published by order of the Department "for the information and guidance of the *Jeannette* Search Expedition." Windows, and Argand burners supplied with kerosene, leave nothing to be desired as regards light. As heating is accomplished by open stoves, the temperature can not be regulated within in a few degrees, but as far as possible should be between 50° F. and 60° F. during waking hours.

Officers and men should thoroughly bathe and change their underwear at least once in two weeks. Bedding should be aired at least once a month, oftener if the weather permits.

Officers and men, except in very extreme weather, should exercise at least three hours daily, and these three hours should be those during which the sun is above the horizon. During the hours of exercise the door should be opened widely, and hot fires kept up in the stoves.

A transom should be arranged over the door so as to regulate the supply of fresh air admitted. If after trial this is found insufficient, I would recommend that air be admitted through iron tubing, so arranged that the air should be warmed before entering the quarters.

For clothing around the fort our stout woolen underwear, supplemented by the "arteegay" of reindeer skin, will be sufficient, but for sledging parties I would earnestly recommend the warm fur clothing of the Eskimo.

Cheerfulness should be encouraged among the men as much as possible by such means as music, literature, games, etc.

As much fresh food, either game or fish, should be obtained as is possible and regularly eaten.

The ration of lime-juice, both on sledging expeditions and in the fort, should be daily taken.

Officers and men should undergo a monthly examination.

Before starting on a sledging expedition, all persons going on it should be examined and weighed. A water-closet, as comfortable as possible, should be had for both officers and men. On sledging expeditions the tent of the previous night can be used.

Men should keep a lookout on each other for frost bites and treat them at once.

Observations of the psychrometer go to show that we will not be inconvenienced by condensation of moisture; therefore the necessity for any recommendations in regard to it is at present obviated.

Very respectfully,

FRANCIS S. NASH,

Passed Assistant Surgeon, U. S. Navy.

Lieut. GEORGE M. STONEY, U. S. Navy,
Commanding Northern Alaska Exploring Expedition.

The following is a table of weights taken while living in the fort.

Date.	Name.	Rate.	Weights.	Lcss.	Gain.
			Pounds.	Pounds.	Pounds.
Oct., 1885	Stoney, G. M.	Lieutenant	202		
	Read, M. L.	Ensign	138		
	Howard, W. L.	do	138		
	Nash, F. S.	Passed assistant surgeon	134		
	Zane, A. V.	Passed assistant engineer	173		
	Allanka	Ordinary seaman	117		
	Devine, P. J.	Boiler-maker	182		
	McShane, J. F.	S. W.	151		
	Nieman, J.	Paymaster's yeoman	146		
	O'Leary, E. P.	Yeoman	162		
	Powers, T. J.	S. M. M.	155		
	Pierce, F. J.	S. C.	185		
	Ready, W. H.	Machinist	146		
	Rohde, William	Master-at-arms	151		
	Sokoloff, G. P.	W. S.	141		
	Tripland, C. P.	Q. M.	155		
Nov., 1885	Stoney, G. M.	Lieutenant	202		
	Read, M. L.	Ensign	133	5	
	Howard, W. L.	do	135	3	
	Nash, F. S.	Passed assistant surgeon	133	1	
	Zane, A. V.	Passed assistant engineer	176		3
	Allanka	Ordinary seaman	119		2
	Devine, P. J.	Boiler-maker	182		
	McShane, J. F.	S. W.	147	4	
	Nieman, J.	Paymaster's yeoman	144	2	
	O'Leary, E. P.	Yeoman	150	3	
	Powers, T. J.	S. M. M.	151	4	
	Pierce, F. J.	S. C.	187		2
	Ready, W. H.	Machinist	142	4	
	Rohde, W. H.	Master-at-arms	152		1
	Sokoloff, G. P.	W. S.	142		1
	Tripland, C. P.	Q. M.	157		2
Dec., 1885	Stoney, G. M.	Lieutenant	190	3	
	Read, M. L.	Ensign	129	4	
	Howard, W. L.	do	134	1	
	Nash, F. S.	Passed assistant surgeon	131	2	
	Zane, A. V.	Passed assistant engineer	177		1
	Allanka	Ordinary seaman	123		4
	Devine, P. J.	Boiler-maker	184		2
	McShane, J. F.	S. W.	143	4	
	Nieman, J.	Paymaster's yeoman	147	3	
	O'Leary, E. P.	Yeoman	150½		½
	Powers, T. J.	S. M. M.	152		1
	Pierce, F. J.	S. C.	191		4
	Ready, W. H.	Machinist	140	2	
	Rohde, Wm.	Master at-arms	150	2	
	Sokoloff, G. P.	W. S.	143		1
	Tripland, C. P.	C. M.	160	3	
Jan., 1886	Stoney, G. M.	Lieutenant	195	4	
	Read, M. L.	Ensign	125	4	
	Howard, W. L.	do	135		1
	Nash, F. S.	Passed assistant surgeon	127	4	
	Zane, A. V.	Passed assistant engineer	(*) 177		
	Allanka	Ordinary seaman	126		3
	Devine, P. J.	Boiler-maker	189		5
	McShane, J. F.	S. W.	147		4
	Nieman, J.	Paymaster's yeoman	144	3	
	O'Leary, E. P.	Yeoman	163		3½
	Powers, T. J.	S. M. M.	153		1
	Pierce, F. J.	C. M.	184	7	
	Ready, W. H.	Machinist	141		1
	Rohde, Wm.	Master-at-arms	145	5	
	Sokoloff, G. P.	W. S.	(*) 143		
	Tripland, C. P.	S. C.	162		2
Feb., 1886	Stoney, G. M.	Lieutenant	199		4
	Read, M. L.	Ensign	128		3
	Howard, W. L.	do	134	1	
	Nash, F. S.	Passed assistant surgeon	123	4	
	Zane, A. V.	Passed assistant engineer	(*) 177		
	Allanka	Ordinary seaman	129		3

The following is a table of weights taken while living in the fort—Continued.

Date.	Name.	Rate.	Weights.	Loss.	Gain.
			<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Feb., 1886	Devine, P. J.	Boiler-maker.	185½	3½	
	McShane, J. F.	S. W.	147		
	Nieman, J.	Paymaster's yeoman.	142	2	
	O'Leary, E. P.	Yeoman.	158	5	
	Powers, T. J.	S. M. M.	149	4	
	Pierce, F. J.	C. M.	186		2
	Ready, W. H.	Machinist.	142	1	
	Rohde, Wm.	Master-at-arms.	148		3
	Sokoloff, G. B.	W. S.	(*)		
	Tripland, C. P.	S. C.	160	2	
	Stoney, G. M.	Lieutenant.	(*)		
	Read, M. L.	Ensign.	125	3	
Mar., 1886	Howard, W. L.	do.	135		1
	Nash, F. S.	Passed assistant surgeon.	124		1
	Zane, A. V.	Passed assistant engineer.	174		
	Allanka.	Ordinary seaman.	(*)		
	Devine, P. J.	Boiler-maker.	185	½	
	McShane, J. F.	S. W.	142	5	
	Nieman, J.	Paymaster's yeoman.	143		1
	O'Leary, E. P.	Yeoman.	157	1	
	Powers, T. J.	S. M. M.	151½		2½
	Pierce, F. J.	C. M.	179	7	
	Ready, W. H.	Machinist.	142		
	Rohde, Wm.	Master-at-arms.	153		5
Apr., 1886	Sokoloff, G. P.	W. S.	145		
	Tripland, C. P.	S. C.	162		2
	Stoney, G. M.	Lieutenant.	202		
	Read, M. L.	Ensign.	130		5
	Howard, W. L.	do.	135		6
	Nash, F. S.	Past assistant surgeon.	128		4
	Zane, A. V.	Past assistant engineer.	175		1
	Allanka.	Ordinary seaman.	126		
	Devine, P. J.	Boiler-maker.	191		6
	McShane, J. F.	S. W.	144		2
	Nieman, J.	Paymaster's yeoman.	143		
	O'Leary, E. P.	Yeoman.	156	1	
May, 1886	Powers, T. J.	S. M. M.	155		4½
	Pierce, F. J.	C. M.	183		4
	Ready, W. H.	Machinist.	141	1	
	Rohde, Wm.	Master-at-arms.	148	5	
	Sokoloff, G. P.	W. S.	147		2
	Tripland, C. P.	S. C.	169		7
	Stoney, G. M.	Lieutenant.	191	11	
	Read, M. L.	Ensign.	127	3	
	Howard, W. L.	do.	(*)		
	Nash, F. S.	Passed assistant surgeon.	127	1	
	Zane, A. V.	Passed assistant engineer.	176		1
	Allanka.	Ordinary seaman.	128		2
June, 1886	Devine, P. J.	Boiler-maker.	194		3
	McShane, J. F.	S. W.	150		6
	Nieman, J.	Paymaster's yeoman.	144		1
	O'Leary, E. P.	Yeoman.	155	1	
	Powers, T. J.	S. M. M.	154		
	Pierce, F. J.	C. M.	(*)		
	Ready, W. H.	Machinist.	142		1
	Rohde, William.	Master-at-arms.	144	4	
	Sokoloff, G. P.	W. S.	148		1
	Tripland, C. P.	S. C.	170		1
	Stoney, G. M.	Lieutenant.	189½	1½	
	Read, M. L.	Ensign.	132		5
June, 1886	Howard, W. L.	do.	(*)		
	Nash, F. S.	Passed assistant surgeon.	129		2
	Zane, A. V.	Passed assistant engineer.	180		4
	Allanka.	Ordinary seaman.	131		3
	Devine, P. J.	Boiler-maker.	190	4	
	McShane, J. F.	S. W.	155		5
	Nieman, J.	Paymaster's yeoman.	150		6
	O'Leary, E. P.	Yeoman.	162		7
	Powers, T. J.	S. M. M.	156		2
	Pierce, F. J.	C. M.	(*)		
	Ready, W. H.	Machinist.	145		3
	Rohde, William.	Master-at-arms.	149		5
June, 1886	Sokoloff, G. P.	W. S.	157		9
	Tripland, C. P.	S. C.	178		8

* Absent.

The weights were usually taken on the 12th and the medical examinations made on the 1st of the several months. A reference to the sick report will show that there were no medical or surgical cases requiring special mention.

OBSERVATIONS ON AN EPIDEMIC OF "SORE THROAT," AT U. S. NAVAL ACADEMY, ANNAPOLIS, MD.

By Medical Inspector T. C. WALTON, U. S. Navy.

During the years 1885, 1886, and 1887, "sore throat" of a diphtheritic nature was prevalent in the city of Annapolis and at the Naval Academy. It varied in severity, it was most fatal in the city during the autumn and early winter months of 1886, when over fifty deaths occurred there from it. During that time only one case occurred within the Academy walls. A moderately strict quarantine was enforced at the time. In the years mentioned, there were three deaths from it in the families stationed at the Academy, none among cadets. Over five hundred cases were treated. Three hundred and twenty of these cases appear in the "sick reports" of the time, as tonsillitis, pharyngitis, and diphtheria, being classified according to the prominent local symptoms. In the report of sick for the last quarter of 1887, the cases of this disease are classed as tonsillitis, 30; pharyngitis, 3; and diphtheria, 1.

These latter are more particularly referred to now, their peculiarities being readily recalled. They seemed to be of the same nature and the result of the same cause, an endemic influence. All of the cases that occurred in the years mentioned were very similar, varying in type from true diphtheria, fatal in character, to mild membranous pharyngitis or tonsillitis with more or less exudation; but their identity was not at first recognized. The symptoms which ushered in the disease were generally similar, a chill, followed by high fever, nausea, and vomiting. The gastric disturbance would continue about a day, the fever from a few hours to several days, according to the severity of the case. There would be dryness of the throat, and in a few hours after the chill an exudation could be detected, generally on one tonsil. In a mild case the exudation would be limited to one tonsil or even a portion of it, thin, whitish or bluish white, and easily detached without producing hemorrhage. The adjacent tissues congested moderately. More frequently both tonsils would be involved, and occasionally the soft palate. After two or three days the inflammation would subside and the exudation disappear, leaving the tissue from which it came intensely congested and having the appearance of raw, lean beef, gradually disappearing as recovery became perfected. The cervical and submaxillary glands were nearly always enlarged and tender. There was loss of appetite and a feeling of general weakness in nearly every case.

In severe cases all of the symptoms mentioned were intensified, such as high fever, long continued, may be several days, complete anorexia, marked debility, cervical glands much enlarged, congestion of throat intense, exudation often extending over both tonsils, pharynx, soft palate, and posterior nares, and in one case the larynx, into the bronchia. The membrane was nearly always thin, white when recent, and easily detached without hemorrhage unless more force than necessary to remove it were used. After removal it would frequently re-form, though generally in a gradually diminishing extent. An offensive odor emanated from it as it became old, unless disinfectants were freely used. The inflammatory action usually culminated with the free exudation, then the symptoms, slowly at first, later more rapidly, declined, leaving the patient weak and ill-conditioned for several days. In only two of the cases, embraced in the last quarterly report, were paralytic symptoms observed. These occurred towards the end of convalescence, they were slight and of short duration. In none of the cases was albumin detected in the urine, though in only the most severe was the urine examined.

In the case denominated diphtheria there was no difference in symptoms from those of severe tonsillitis, except that the membrane was tougher, of a dirty wash leather appearance, more offensive, and more adherent, hemorrhage being invariably produced by any forcible spraying of the throat. Recovery was more tardy and ensuing paralyzes more marked; no albuminuria. In this case, as the membrane was dis-

appearing from the throat, a wound of the great toe took on specific inflammatory action and a membrane appeared upon it, accompanied by an increase of constitutional disturbance.

The case alluded to, where the membrane extended to the larynx, was that of an adult patient, not included in the quarterly report. The disease began in the usual manner, chilly sensations, fever, and vomiting, an exudation appeared on both tonsils, very thin and extending entirely over the glands. The fever, which was not at all severe, subsided on the second day and the membrane had entirely disappeared on the fourth, leaving the tonsils slightly swollen and of a dark red color, from hyperæmia. The constitutional disturbance was slight and there was very little weakness manifest. It was considered a very mild form of the disease. On the morning of the sixth day the patient was found with a dry hacking cough, which had commenced about midnight and had continued almost incessantly since. The voice was husky, breathing somewhat stridulous, coarse crepitant rales audible over the greater part of one lung and harsh vesicular murmur over the other; face and neck congested and a good deal of restlessness present, pulse 96, not strong, temperature 101°. By treatment the cough was much moderated, a free expectoration was induced and for a time promoted, large flakes of thin membrane coming away, the breathing became easier and in fact most of the symptoms referable to the larynx subsided, but the crepitation became finer and extended over both lungs, the expectoration diminished, and in thirty hours after the invasion of the larynx death ensued from carbon dioxide poisoning, the membrane probably extending into the minutest bronchioles, if not into the air cells.

This termination is undoubtedly a rare one in what we recognize as a disease differing somewhat from diphtheria; in the latter involvement of the larynx is no rare occurrence. In a case of that kind occurring in a child, the membrane, after invading the pharynx, mouth, and nares, extended to the larynx and the child was nearly suffocated several times by occlusion of the glottis. Tracheotomy was meditated frequently during the two days it continued, but whenever the suffocative attacks occurred they were relieved by breaking up the membrane and removing it with the finger and by emesis. The membrane did not extend beyond the trachea but the inflammation did, probably to the bronchioles, and terminated in a bronchorrhoea, which for a time was so profuse as to nearly asphyxiate the patient; it subsided after several days and recovery ensued.

The difference between the mildest of these cases, where recovery in a few days could safely be predicted, and the most severe, where a fatal termination was dreaded from the outset, was quite marked; as they approached each other in severity it disappeared, and the conclusion arrived at, from a clinical standpoint, is, that it was one of degree only, that the disease was of the same nature in all and produced by the same cause, though that cause probably had different modes of approach. A number of cases would generally occur together without connection so far as locality or proximity were concerned, occurring in officers' families and among cadets quartered far apart, where the water and sewerage were beyond suspicion. In most of them could be traced some exposure to cold, damp air while the body was warm or maybe overheated. One case occurred in a patient who had been in the "sick quarters" several days and had no intercourse with any one exposed to the disease, but who imprudently slept near an open window, and the following morning awoke chilled and with an inflamed throat; membranous pharyngitis followed, and afterward slight paralyses of the muscles of the pharynx and lower extremities. All of the cases were isolated as soon as recognized and means promptly adopted to prevent spread by contagion, except for a time during the first year, until it was noticed that when a cadet appeared with the disease his room-mate almost invariably followed in from two to four days. A number of instances are known where children were exposed to the disease and escaped it. Our experience can be construed to prove contagion and non-contagion. The safe plan is to consider all cases as being contagious, and that the mild form may beget the severe one.

About all the methods of treatment described in recent literature on diphtheria, membranous sore throat, croupous pharyngitis, and the acute tonsillar inflammations were tried with variable success. Perhaps the most satisfactory general plan pursued was to commence with a saline cathartic; give liquor ammoniac acetates during the height of the febrile stage; then tincture ferri muricates in from 12 to 30 drop doses, diluted with glycerine, every two to four hours, according to the degree of lessened vitality; also alcohol rather freely, as milk-punch or whisky and water; hot milk, beef tea, and ice when asked for. Locally, frequent spraying of the throat with lime-water, applying tincture ferri muricates, pure or diluted one-half with glycerine, over the affected parts every three or four hours; syringing the throat and nostrils with a solution of chlorinated soda daily, or more frequently when fetor was perceptible, care being taken not to forcibly detach the membrane. Externally, over the painful glands a mixture of the tincture of belladonna and iodine afforded relief. Isolation of the patients was continued until recovery was complete.

REPORT UPON THE MUSEUM OF HYGIENE.

By Medical Inspector H. M. WELLS, U. S. Navy.

I have the honor to submit the following annual report upon the Museum of Hygiene.

On assuming charge, February 1, 1888, I found the museum overcrowded with exhibits, the library too large for its allotted space, and the laboratory fully occupied with chemical work. All of which demonstrated the healthy growth of the institution in the short period of six years, as well as the wisdom of its founders and managers. It is therefore unnecessary to advance any argument as to the need of such a museum, it being the first and only one of its special character in this country.

Apart from the support which it must have from the General Government, its existence and objects must be more generally made known to the medical profession and all who are interested in sanitary science to insure its perfect and permanent success.

During the recent congress of physicians and surgeons held in this city the museum was visited by many delegates, some of whom until then were ignorant of the existence of such an institution, while all expressed surprise and gratification at what had been accomplished in so short a time, and promised their interest and support in the future.

New efforts have recently been made to enlist the co-operation of medical men, architects, builders, plumbers, inventors, and students of hygiene throughout the country. As the publicity of the museum increases so will the collection of sanitary and hygienic appliances increase, until there will be absolutely no more space in the present building for exhibition of the same. It will therefore soon become necessary to use the lower floor, now occupied by the naval dispensary, or seek a larger building.

During the past year many additions to the exhibits have been made, including some very interesting and instructive specimens of defective plumbing, faulty traps, and waste pipes, and here I would add that prominent builders and plumbers in Washington and other cities are manifesting their interest in the museum by contributions which show the advancement made in recent years in building healthful homes. The result is that the museum is frequently visited by persons who are in search of the best sanitary measures to render their new buildings wholesome and healthful.

The library is constantly receiving accessions, including the best native and foreign works and periodicals on medicine and surgery, hygiene, and scientific subjects. This increase necessitates the re-arrangement of the books and the addition of more shelves the coming year. We have now about one thousand volumes ready for binding.

It is desirable to make this the standard library in this country for all in search of sanitary knowledge, and I would respectfully recommend that an appropriation of \$1,000 be asked of Congress for the purchase of books and the binding of periodicals.

Little has been done in the physiological department, the difficulties mentioned by my predecessor still existing, namely, want of sufficient officers to carry on the work. A handsome large case has been constructed by one of the laborers of the museum. This and the other full cases contain a collection of scientific apparatus and instruments unequalled by any institution in Washington. It needs an officer specially fitted for this department and I hope such a one may be detailed for the duty.

Some experiments are now being made in photomicrography by Passed Assistant Surgeon S. H. Griffith, U. S. Navy, whose skill with the camera and microscope is well known.

In the biological department a series of new experiments in the method of determining the relative potency of germicides will shortly be undertaken, with the view of developing some uniform system of fumigating and disinfecting our vessels in the navy.

In the chemical department much good work has been accomplished. Over one hundred and fifty analyses have been made, including specimens of urine, extract of

malt, milk, beef, peptones, petroleum, disinfectants, potable water, gases, gold lace, and steel, the separation of zirconium and aluminium, preparation of pure urea, both natural and artificial, for use in urea determinations.

Medical Inspector Charles H. White, U. S. Navy, spent the last fifteen weeks of his service in the museum in experiments on urea. With other medical officers, he had long recognized the difficulty of making a quantitative estimate of urea on board ship and in hospitals without the facilities of a laboratory, and, after a long series of experiments with the methods of Liebig, Knop-Hüfner, Bunsen, Boymond, Piffard, and Davy, has developed a simple method, the apparatus for which can be easily made and used on board ship.

The new book of "Instructions" in the "Navy test case" gives Davy's method, using the liquor sodæ chlorinatæ. As this solution is not reliable, owing to its tendency to decompose, Dr. White has substituted calcium hypochlorite, the ordinary chloride of lime of commerce, which can be kept indefinitely in well-corked bottles. A separate report of this method will be made to the Bureau with recommendations for its adoption in the "test case."

The chemical laboratory is at present well equipped for ordinary analytical work, but its efficiency and usefulness can be largely increased by an outlay of a few hundred dollars. This would enable us to examine all drugs, oils, anesthetics, malt extracts, alcoholic liquors, acids, etc., purchased for the medical department of the Navy; in fact, the same as is done in the Army. This is especially important in compounds where great accuracy as to the amount of the active constituent is necessary. Also examination of oils, lubricants, and fuels for the Bureau of Steam Engineering; metals, powder, and explosives for the Bureau of Ordnance; the navy ration and clothing for the Bureau of Provisions and Clothing.

To accomplish this it is estimated that \$500 will be needed. If this be allowed the increase of work in the laboratory will require more workers, and it is respectfully recommended that a competent chemist be employed at a salary of \$1,500.

EXTRACTS FROM REPORT ON U. S. NAVAL HOSPITAL, PHILADELPHIA, PA.

By Medical Director W. T. HORD, U. S. Navy.

On the 1st of January, 1888, there were 24 sick in the hospital and there were 194 beneficiaries on the rolls of the asylum.

The number of beneficiaries during the last year was greater than ever before, and the percentage of deaths was proportionally greater.

Roughly estimated, about 75 per cent. of the beneficiaries are suffering from either heart disease, paralysis, or inflammation of the bladder from enlarged prostate glands; some of them having all three of these fatal diseases. A very large number of them are also drunkards, so that when attacked by any acute disease their chances of recovery are very slight. It is impossible to overestimate the agency of alcohol in causing or aggravating the diseases of these old men, and the mortality among them corresponds in a great measure with the success of the officers of the asylum in keeping liquor from them. I believe if it were possible to deprive them of it altogether the death-rate would be reduced very materially. A large number of beneficiaries on the rolls of the asylum have never been "reported" as intoxicated, but I do not think that this implies they are not drinking men, for with very few exceptions all the men admitted into the hospital have an alcoholic complication, either directly or remotely. Too much credit can not be given to the officers of the asylum for their efforts to suppress this cause of so much sickness and mortality among these old men.

The water supplied by the city has not improved since my last report. I have had the water coolers in the hospital filled with Kennebec ice, and the sick use the melted ice exclusively for drinking purposes.

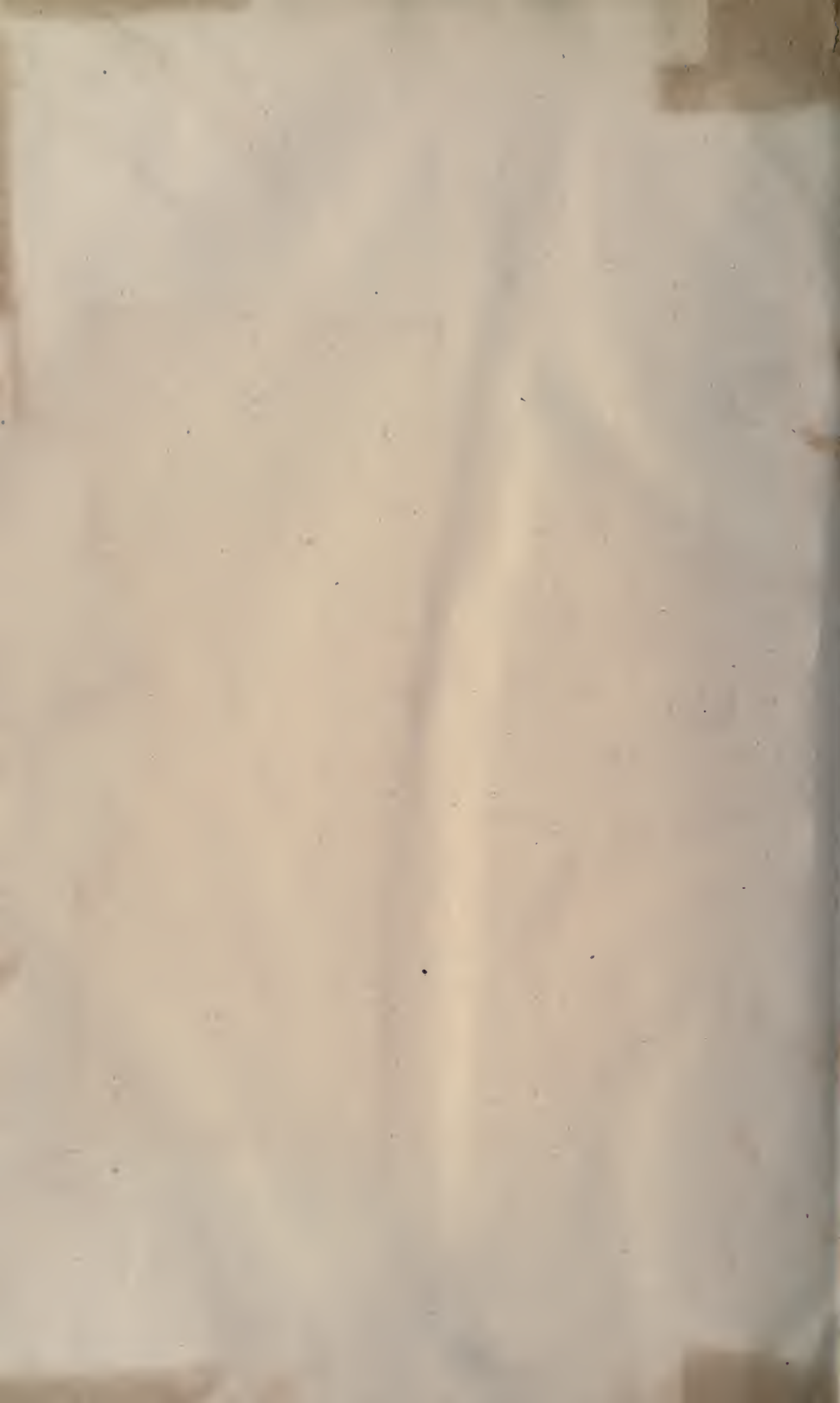
At this time an epidemic of typhoid fever prevails in certain districts of the city, which is ascribed by the health-officer to the use of impure water.

Malarial fever prevails to a considerable extent within the inclosure, and many of the women and children and some of the beneficiaries suffer from it.

The ordinary rise and fall of the tide in the Schuylkill is about 5 feet, but a strong northerly wind blowing for a day or two will increase the fall to about 10 feet, which leaves bare the banks of the river, covered with filth of every sort. This must be the reason why offensive smells are more prevalent in the winter than in summer. This narrow stream serves as a sewer for a population of about 300,000 people; one-third of the sewerage of the city empties into the Schuylkill. All the slaughter houses of the city are situated on the Schuylkill River at the Market Street Bridge, and the refuse is also emptied into the river.







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